U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-289 320

Water Resources Data for Maine, Water Year 1974 Part 1. Surface Water Records. Part 2. Water Quality Records. Part 3. Ground Water Records

(U.S.) Geological Survey, Boston, MA. Water Resources Div.

1975

PB 289320

Water Resources Data for Maine

Water Year 1974

Part 1. Surface Water Records

Part 2. Water Quality Records

Part 3. Ground Water Records

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY WATER-DATA REPORT ME-74-1

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

S	M	T	W	T	F	S
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NOVEMBER

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1974

JANUARY

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JUNE

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JULY

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AUGUST

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SEPTEMBER

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29	30					

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Water resources data for the 1974 water year for Maine consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells and springs. This report contains discharge records for 62 gaging stations; stage and contents for 20 lakes and reservoirs; water quality for 10 gaging stations, and water levels for 12 observation wells. Also included are 22 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Maine.

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Water Resources Data for Maine

Part 1. Surface Water Records

Part 2. Water Quality Records

Part 3. Ground Water Records

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-74-1

Prepared in cooperation with the Maine Public Utilities Commission and with other agencies

Prepared in cooperation with

Maine Public Utilities Commission
Maine Department of Transportation
U.S. Department of State
U.S. Environmental Protection Agency

Copies of this report may be obtained from
Subdistrict Chief, Water Resources Division
U.S. Geological Survey
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Capitol Shopping Center
Augusta, Maine 04330

1975

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WATER RESOURCES DATA FOR MAINE, 1974

Part 1. Surface-Water Records
Part 2. Water-Quality Records
Part 3. Ground-Water Records

INTRODUCTION

Water resources data for the 1974 water year for Maine including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, records of water-quality data on the chemical and physical characteristics of surface- and ground-water, and records of ground-water levels in index wells are given in this report. In Part 1, records are included for 63 gaging stations, of which 62 are streamflow discharge stations, and 1 is a lake station; also are included records for 22 crest-stage partial-record stations, and 14 miscellaneous sites. In Part 2, water quality data on chemical, physical, and biological characteristics of surface and ground water were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly, or less frequently, and at some sites data were recorded on punched paper tape at 60-minute intervals. Records are given for 38 sampling stations of which 11 are continuous record stations, and 27 are miscellaneous sites. Records of chemical analyses are also given for 21 ground-water sites. In Part 3, water level data are shown for 11 ground-water wells. Locations of surface-water stations, water-quality stations, and ground-water wells are shown in figure 2. A few pertinent stations in bordering States and Provinces are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of G. S. Hayes, District Chief, succeeded by C. R. Wagner. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Maine.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1968 water year, ground-water data for Maine have also been released on a State-boundary basis in conjunction with streamflow and water-quality records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Through December 31, 1955, the Geological Survey published ground-water records which contain water level data in an annual series of water-supply papers entitled, "Water Levels and Artesian Pressures in Observation Wells in the United States." Since 1955 this series has been entitled, "Ground-Water Levels in the United States." The calendar years 1956 through 1960 span a transition period wherein the water-supply papers are converted from presenting 1 year of data to 5 years of data. Water-Supply Paper 1537 contains records of water levels in Maine for calendar years 1956-57, Water-Supply Paper 1782 for calendar years 1958-62, and Water-Supply Paper 1977 for calendar years 1963-67. Subsequent water-supply papers containing records for Maine will be issued for 5-year intervals. Beginning with the 1968 water year, ground-water data for Maine have also been released on a State-boundary basis in conjunction with streamflow and water-quality records. More information is given under the heading, "Publications" on pages 15 and 18.

COOPERATION

The U.S. Geological Survey and organizations of the State of Maine have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality and ground-water records since 1957. Organizations that supplied data are acknowledged in station descriptions or in footnotes to tables. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Maine Public Utilities Commission, J. G. Feehan, chairman, succeeded by P. A. Bradford.
Maine Department of Transportation, D. H. Stevens, commissioner, succeeded by R. L. Mallar.
Maine Department of Environmental Protection, W. R. Adams, Jr., commissioner.

Assistance in the form of funds or services was given by the U.S. Department of State in collecting records published herein for 5 gaging stations and 1 water-quality station; and U.S. Environmental Protection Agency, for 4 water-quality stations.

The following organizations aided in collecting records:

Bangor Hydro-Electric Company
Kennebec Water Power Company
Georgia-Pacific Corporation
Union Water Power Company

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States) and records are obtained and compiled in a manner equally acceptable to both countries. These stations are designated herein as "International gaging stations."

DEFINITION OF TERMS

The terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English Units to International System (SI) Units on page 24.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 millilitres is determined by the immediate or delayed incubation membrane filter method.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot (0.02832 cubic metres) passing a given point during 1 second and is equivalent to 7.48 gallons per second (0.03832 cubic metres per second) or 448.8 gallons per minute (1.69 cubic metres per minute).

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (ft^3/s)."

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO3$).

Land surface datum (lsd) is a precise datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is a permanent point from which the distance to the water surface in a well is measured to obtain the water level.

Micrograms per litre (ug/l, UG/L) is a more precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per litre is equivalent to one milligram per litre. See below.

> Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, page 7. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Plankton is the floating (or weakly swimming) animal or plant life in a body of water consisting chiefly of minute plants (as diatoms and blue-green algae) and of minute animals (as protozoan, entomostracans, and various larvae).

Runoff in inches (IN,in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per litre by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir. See also table for converting English Units to International Units on page 24.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1})......	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*......	.05372
Barium (Ba^{+2})......	.01456	Lead (Pb^{+2})*......	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1})*....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*......	.03060

*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170- -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds. The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast-acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Radiochemical program is a network of regularly sampled water quality stations where additional samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in ug/l (micrograms per litre), radium as radium - 226 in PC/L, (pCi/l, picocuries per litre), gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre (ug/l). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

A picocurie (PC,pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging station or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 03335500, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "335500". In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

WELL NUMBERS

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits are a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well.

A local well numbering system is also used in this report. All wells which have been inventoried are numbered consecutively within each county.

EXPLANATION OF SURFACE WATER RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct reading of a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in the U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the gage height to the rating table gives the discharge. The daily mean discharge is computed from gage heights, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. Information required for determining the slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage, at these stations the rate of change in stage is used as a factor in determining discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents are computed. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations or streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of contents is given. Tables of daily gage heights are included for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1974 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations is that determined and used by the Corps of Engineers and other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the streamflow records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily reading of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. For some reservoirs the elevation is given in the daily table.

The monthly summary is given below the daily table. For stream-gaging stations the line headed "TOTAL" gives the sum of the daily figures; it is the total cubic feet per second per day for the month. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the basin is usually less than 20 inches (508 millimetres).

For reservoir stations the monthly summary gives the contents at the end of the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month and the change in contents during the month.

In the yearly summary below the monthly summary, the figures of maximum are the maximum daily discharges for the calendar and water years; likewise, the minimum in this summary are the minimum daily discharges.

For the reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE," certain periods are indicated for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs. Footnotes to reservoir tables explain the use of new capacity tables or for other special conditions.

Accuracy of Data

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good", within 10 percent; and "fair", within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot (0.02832 cubic metres) per second for discharges less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s (0.02832 and 0.2832 m^3/s); to whole numbers between 10 and 1,000 ft^3/s (0.2832 and 28.3 m^3/s); and to 3 significant figures above 1,000 ft^3/s (28.3 m^3/s). The number of significant figures used is based solely on the magnitude of the figures. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation or other factors. For these stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects.

Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Maine for the period October 1960 to September 1965 are in Water-Supply Paper 1901 and for the period October 1965 to September 1970 in Water-Supply Paper 2101 (now in press).

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Maine are compiled in Water-Supply Papers 1301 through September 1950, and in 1721 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Data collected at partial-record stations and at miscellaneous sites are given in two tables at the end of the surface-water records in this report. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at miscellaneous sites.

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

EXPLANATION OF WATER QUALITY RECORDS

Collection and Examination of Data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage areas, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

Data on the quality of surface water were collected from designated sampling sites (map on page 23) at predetermined intervals such as once daily, weekly, monthly or less frequently. Data on the quality of ground water were collected once during the year at 3 index wells whose locations are shown in Figure 2 and 12 other wells in the eastern section of the State.

Water-quality information is presented for chemical quality, microbiological, fluvial sediment and water temperatures. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnishes information from which daily minimums and maximums are obtained.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per litre (mg/l) and water temperature are given in degrees Celsius (centigrade, °C). In waters with density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. To convert temperatures in degrees Celsius to degrees Fahrenheit, see table on page 18.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants in micrograms per litre instead of milligrams per litre. (See "Definition of Terms," p. 4).

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz, and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey subdistrict office at the address given on the back of the title page of this report.

Ground-water quality normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Table [illegible].--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Maine are listed below.

Water year	WSP No.	Water year	WSP No.
1953	1290	1963	1947
1954	1350	1964	1954
1955	1400	1965	1961
1957	1520	1966	1991
1958	1571	1967	2011
1959	1641	1968	2091
1960	1741	1969	2141
1961	1881	1970	2151
1962	1941	1971	2161

EXPLANATION OF GROUND-WATER RECORDS

Collection and Reporting of Data

Water level measurements are reported in feet below land surface datum and to as many significant figures as can be justified by local conditions. Measurements of water level in wells equipped with recording gages are given for every fifth day and the end of each month. Locations of the index wells are shown on map on page 23.

HYDROLOGIC CONDITIONS

Runoff for the water year 1974 was excessive (in the upper quartile of recorded annual runoff) over the entire State, ranging from 127 to 182 percent of normal at the three index gaging stations. Mean monthly runoff was excessive at nearly all stations during the December through March period and at most stations during the month of May. Ice jams caused some damage in the St. John River basin during the month of December and remained to contribute to the record-breaking flood during the last days of April and the first days of May. The annual runoff for water year 1974 was about 10 percent lower than in water year 1973 except in the central section, where it was slightly higher.

Average water content of the snowpack on March 1 ranged from less than one inch to eight inches (25.4 to 203 millimetres) in the various river basins of the State. It was below normal for the date in all areas and ranged from 8 percent in the Coastal River basins to 98 percent in the St. John River basin.

Ground-water tables rose from low levels at the beginning of October to very high levels in December, which resulted from very heavy rain and snowmelt during December. Levels generally fluctuated seasonally during the remainder of the year, reaching maximum levels at the end of April and minimum levels in September. Ground-water levels were average or above during most of the year.

Water in usable storage, which was 141 percent of average at the start of the year, remained above normal during the entire year, and was 115 percent of average at the end of the water year.

Figure 1, page 22, for which records at three long-term representative gaging stations were used, shows a comparison of the monthly and yearly mean discharges for the 1974 water year with median discharges for the 1931-60 period.

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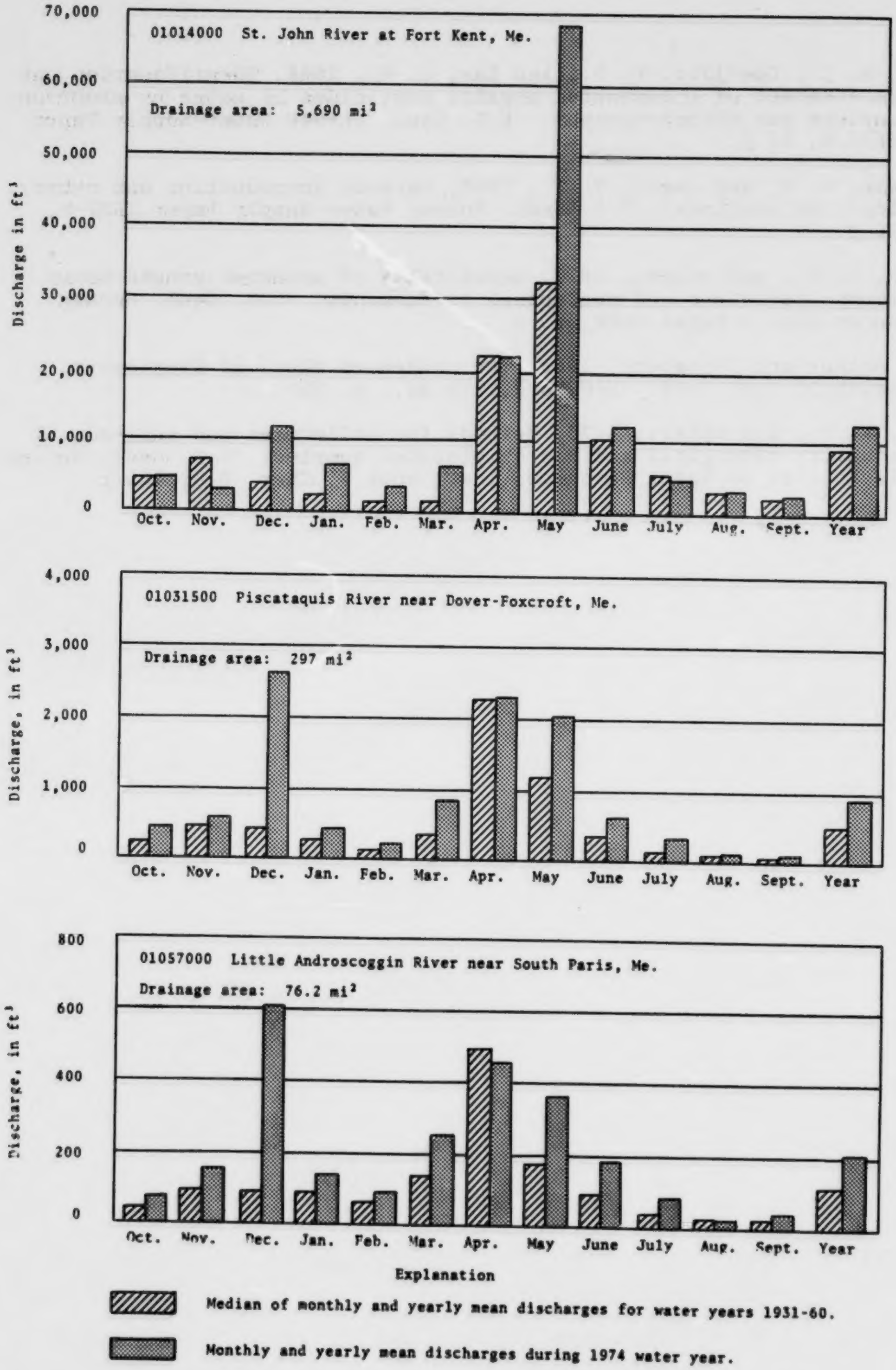

Figure 1.--Comparison of runoff at three long-term index gaging stations during 1974 water year with median runoff for period 1931-60.

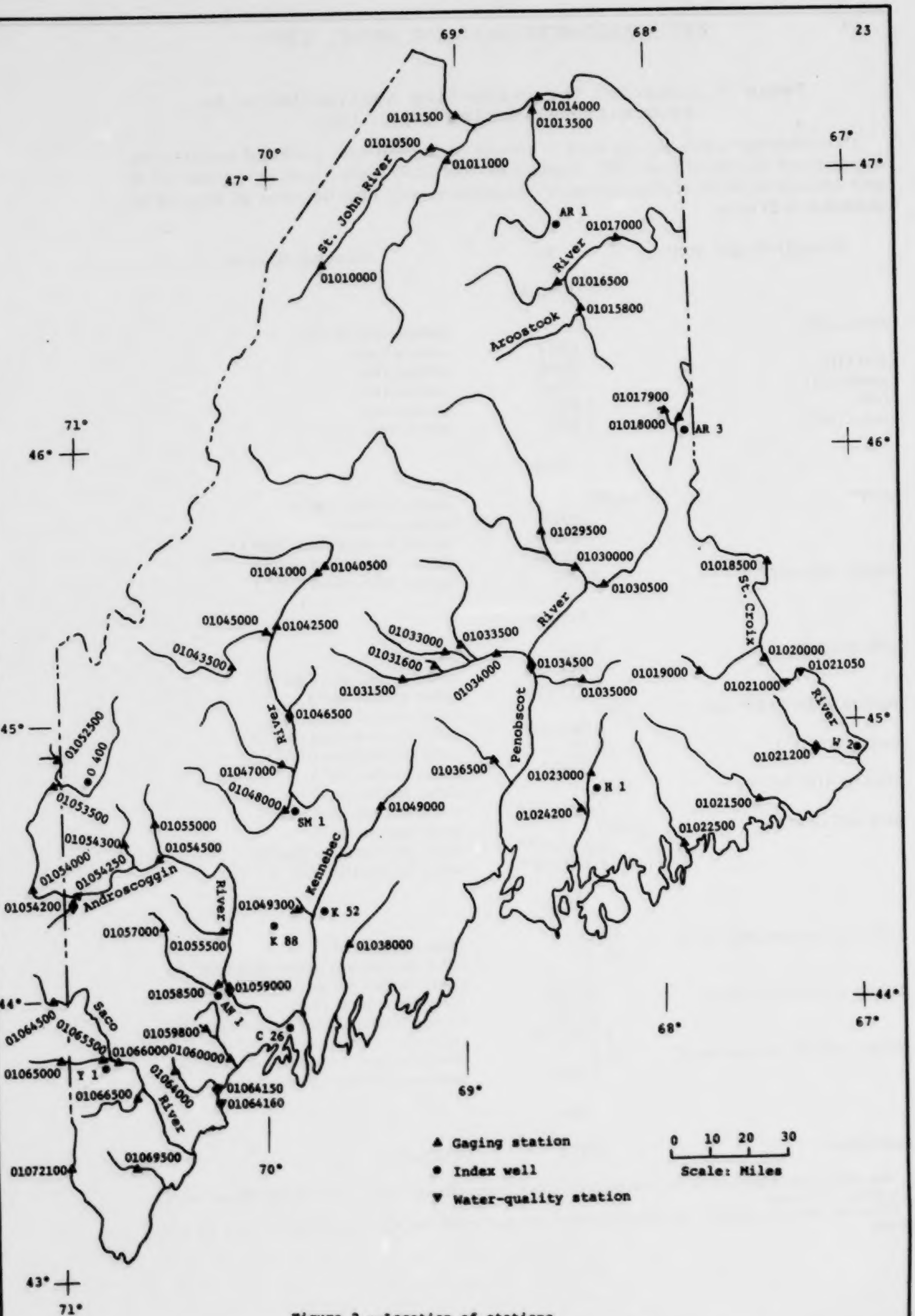
69°
68°
67°
47°
70°
47°
01014000
01013500
01011500
01010500
01011000
St. John River
AR 1
01017000
River
01016500
01015800
Aroostook
01010000
01017900
01018000
AR 3
71°
46°
46°
01029500
01030000
01030500
01018500
St. Croix
01041000
01040500
River
01045000
01042500
01033000
01033500
01043500
01031600
01034500
01019000
01020000
01021050
01031500
01034000
01035000
01021000
River
45°
01052500
01046500
45°
River
Penobscot
W 2
01021200
O 400
01047000
01036500
01023000
H 1
01048000
SM 1
01049000
01021500
01053500
01055000
01024200
01022500
01054300
01054500
Kennebec
01054000
01054250
River
Androscoggin
01054200
01049300
K 52
K 88
01057000
01055500
01038000
01058500
01059000
44°
AN 1
44°
Saco
C 26
68°
67°
01064500
01065500
01059800
01066000
01060000
01065000
Y 1
01064000
01064150
01066300
01064160
69°
River
01069500
70°
01072100
▲ Gaging station
● Index well
▼ Water-quality station
0 10 20 30
Scale: Miles
43°
71°

Figure 2.--Location of stations

Table 4.--Factors for converting English units to International System units (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4047	square metres (m^2)
	.4047	*hectares (ha)
	.4047	square hectometres (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-days [$(ft^3/s)\cdot d$]	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	1.233×10^{-6}	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	6.309×10^{-5}	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
tons (short)	.9072	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

PART 1. SURFACE WATER RECORDS

ST. JOHN RIVER BASIN

01010000 St. John River at Ninemile Bridge, Maine

LOCATION.--Lat 46°42'00", long 69°42'59", Aroostook County, on right bank in T. 12, R. 15, 0.1 mi (0.2 km) downstream from Ninemile Brook, 0.4 mi (0.6 km) downstream from site of Ninemile Bridge, and 11 mi (18 km) northwest of Clayton Lake Post Office.

DRAINAGE AREA.--1,290 mi² (3,340 km²), approximately.

PERIOD OF RECORD.--October 1950 to current year. October 1950 monthly discharge only, published in WSP 1721.

GAGE.--Water-stage recorder. Datum of gage is 931.26 ft (283.848 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 2,246 ft³/s (63.61 m³/s), 23.64 in/yr (600 mm/yr).

EXTREMES.--Current year: Maximum discharge, 44,400 ft³/s (1,260 m³/s) May 1 (gage height, 12.63 ft or 3.850 m); maximum gage height, 17.34 ft (5.285 m) April 29 (backwater from ice); minimum discharge, 191 ft³/s (5.41 m³/s) Aug. 17 (gage height, 0.75 ft or 0.229 m).

Period of record: Maximum discharge, 44,400 ft³/s (1,260 m³/s) May 1, 1974 (gage height, 12.63 ft or 3.850 m), from rating curve extended above 16,000 ft³/s (453 m³/s); minimum, 59 ft³/s (1.7 m³/s) Sept. 5, 1953; minimum gage height, 0.25 ft (0.076 m) Sept. 5, 1953, Sept. 11-12, 1960.

REMARKS.--Records excellent except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	659	974	800	3,000	1,480	570	1,760	38,600	3,530	579	761	279
2	621	1,260	835	2,700	1,400	580	1,730	35,500	3,360	555	720	238
3	626	1,790	900	2,350	1,300	620	1,700	29,400	2,860	538	697	235
4	801	1,990	980	2,100	1,200	680	1,700	24,000	2,550	498	625	251
5	2,230	1,790	1,100	1,950	1,100	780	1,750	19,500	2,280	473	532	364
6	7,140	1,360	1,200	1,800	1,050	950	1,950	16,000	2,040	565	629	561
7	7,510	912	1,330	1,650	980	1,300	2,250	14,000	1,790	802	987	489
8	5,610	760	1,500	1,550	920	2,300	2,500	12,400	1,550	839	829	381
9	4,010	710	1,760	1,450	850	3,300	2,700	10,700	1,320	1,400	659	312
10	2,970	690	2,150	1,360	820	3,250	2,500	10,300	1,130	2,660	544	287
11	2,370	650	2,800	1,290	790	3,100	2,200	13,800	1,030	3,250	443	310
12	2,010	645	2,400	1,230	750	3,000	2,000	15,600	1,210	2,730	372	608
13	1,770	640	2,000	1,170	720	2,800	1,800	24,900	1,170	2,090	319	659
14	1,670	690	1,800	1,130	690	2,700	1,750	21,800	940	1,560	279	1,710
15	2,140	790	1,650	1,110	680	2,600	1,850	18,400	782	1,170	248	2,000
16	2,290	720	1,540	1,070	660	2,500	2,150	17,700	670	919	220	1,490
17	2,020	755	1,460	1,040	640	2,400	2,700	15,400	625	775	199	1,050
18	1,750	805	1,440	1,020	630	2,300	3,400	13,000	1,170	663	252	779
19	1,540	810	1,440	985	620	2,250	3,600	10,700	1,480	607	450	605
20	1,360	780	1,500	970	600	2,200	3,400	8,450	1,430	615	712	522
21	1,240	740	1,800	950	590	2,130	3,400	6,920	1,600	955	582	513
22	1,150	745	2,400	930	580	2,100	3,600	5,890	1,760	1,070	452	691
23	1,060	740	4,000	910	600	2,030	4,000	5,920	1,620	835	360	1,360
24	992	710	6,500	905	600	2,000	4,500	9,330	1,370	669	299	1,330
25	933	665	7,400	900	610	1,980	5,000	12,000	1,190	597	262	1,020
26	874	630	7,000	900	600	1,950	5,600	13,200	937	749	241	790
27	819	640	6,000	910	580	1,900	6,400	11,700	803	1,010	339	654
28	766	665	5,250	975	570	1,850	8,400	9,100	814	976	310	573
29	708	720	4,700	1,080	------	1,800	12,000	6,860	772	1,030	298	512
30	670	735	4,100	1,230	------	1,800	24,000	5,030	655	1,100	371	467
31	718	------	3,700	1,500	------	1,800	------	4,000	------	907	343	------
TOTAL	61,027	26,511	83,435	42,115	22,610	61,520	122,290	460,100	44,438	33,186	14,334	21,040
MEAN	1,969	884	2,691	1,359	808	1,985	4,076	14,840	1,481	1,071	462	701
MAX	7,510	1,990	7,400	3,000	1,480	3,300	24,000	38,600	3,530	3,250	987	2,000
MIN	621	630	800	900	570	570	1,700	4,000	625	473	199	235
CFSM	1.53	.69	2.09	1.05	.63	1.54	3.16	11.5	1.15	.83	.36	.54
IN.	1.76	.76	2.41	1.21	.65	1.77	3.53	13.27	1.28	.96	.41	.61

CAL YR 1973 TOTAL 1,115,625 MEAN 3,057 MAX 29,800 MIN 129 CFSM 2.37 IN 32.17
WTR YR 1974 TOTAL 992,606 MEAN 2,719 MAX 38,600 MIN 199 CFSM 2.11 IN 28.62

01010500 St. John River at Dickey, Maine

LOCATION.--Lat 47°06'44", long 69°05'25", Aroostook County, on right bank at downstream side of highway bridge at Dickey, 0.4 mi (0.6 km) downstream from Little Black River, and 2.8 mi (4.5 km) upstream from Allagash River.

DRAINAGE AREA.--2,700 mi^3 (6,993 km^2), approximately.

PERIOD OF RECORD.--July to November 1910 and April to November 11 (published as "near Dickey"), September 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 590.66 ft (180.033 m) above mean sea level (levels by Corps of Engineers). Prior to December 1911, nonrecording gage at site 2,300 ft (701 m) downstream at different datum. September 1946 to April 1962, water-stage recorder at site 1,300 ft (396 m) downstream at same datum.

AVERAGE DISCHARGE.--28 years (1946-74), 4,611 ft^3/s (130.6 m^3/s), 23.19 in/yr (589 mm/yr).

EXTREMES.--Current year: Maximum discharge, 87,200 ft^3/s (2,470 m^3/s) May 1 (gage height, 18.67 ft or 5.691 m, from floodmarks); maximum gage height, 29.16 ft (8.888 m) April 30 (backwater from ice); minimum discharge, 626 ft^3/s (17.7 m^3/s) Aug. 17 (gage height, 4.07 ft or 1.241 m).

Period of record: Maximum discharge, 87,200 ft^3/s (2,470 m^3/s) May 1, 1974 (gage height, 18.67 ft or 5.691 m); maximum gage height, 29.16 ft (8.888 m) Apr. 30, 1974 (backwater from ice); minimum discharge, 129 ft^3/s (3.65 m^3/s) Sept. 17, 1948.

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Records of chemical analyses for water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,240	1,430	1,800	5,500	2,900	880	2,800	52,000	10,600	1,700	2,000	847
2	1,100	1,660	1,900	5,000	2,730	870	2,800	66,000	10,600	1,550	1,770	778
3	1,000	2,450	2,070	4,500	2,530	860	2,800	61,000	9,160	1,480	1,600	695
4	935	2,930	2,300	4,200	2,390	860	2,700	54,000	10,400	1,550	1,640	675
5	1,040	3,100	2,650	3,900	2,250	1,000	2,900	42,000	6,780	1,510	1,920	705
6	4,980	2,560	3,150	3,800	2,100	1,300	3,300	34,000	6,050	1,460	1,740	725
7	12,300	1,830	3,600	3,400	2,000	1,800	3,900	29,600	5,320	1,640	1,500	858
8	10,300	1,480	4,200	3,200	1,900	2,700	4,500	27,100	4,600	2,020	1,920	935
9	7,450	1,480	4,700	3,000	1,800	5,000	4,900	25,100	3,990	2,470	2,100	812
10	5,320	1,590	5,200	2,820	1,700	6,000	4,700	23,600	3,500	4,960	1,740	745
11	4,130	1,240	5,500	2,700	1,600	6,000	4,300	26,400	3,170	6,400	1,530	685
12	3,370	974	4,850	2,600	1,500	5,700	3,900	32,800	3,100	5,700	1,240	705
13	2,900	1,140	4,100	2,500	1,450	5,400	3,600	45,000	3,120	4,450	1,040	1,140
14	2,700	1,380	3,670	2,430	1,400	5,100	3,500	66,000	3,000	3,570	909	3,170
15	3,240	1,280	3,430	2,350	1,300	4,900	3,500	53,600	2,630	2,740	778	4,990
16	3,990	1,200	3,270	2,280	1,250	4,700	4,200	48,100	2,280	2,350	705	4,160
17	3,880	1,640	3,160	2,240	1,200	4,500	5,000	43,800	2,120	1,960	655	3,120
18	3,320	1,660	3,050	2,190	1,150	4,400	6,600	35,800	2,540	1,660	766	2,280
19	2,810	1,660	3,120	2,130	1,100	4,100	7,200	27,600	3,370	1,600	935	1,810
20	2,450	1,660	3,300	2,100	1,000	3,900	7,000	21,900	3,800	1,770	974	1,460
21	2,220	1,660	3,750	2,070	950	3,800	7,200	18,000	3,880	1,770	1,360	1,410
22	2,020	1,480	5,900	2,020	940	3,600	7,600	16,000	4,300	1,980	1,440	1,680
23	1,870	1,680	8,900	2,000	940	3,500	8,400	15,800	4,190	2,020	1,170	2,390
24	1,770	1,640	12,600	1,980	960	3,400	9,400	19,600	3,600	1,740	987	3,050
25	1,680	1,340	14,800	1,950	930	3,300	10,500	26,400	3,000	1,600	948	2,760
26	1,600	1,200	13,400	1,940	900	3,200	11,000	28,600	2,650	1,570	883	2,260
27	1,480	1,180	11,800	1,950	880	3,100	13,000	24,200	2,320	1,810	801	1,870
28	1,410	1,500	10,000	2,000	880	3,000	17,000	20,000	2,020	2,100	824	1,620
29	1,290	2,020	8,900	2,180	------	3,000	22,000	16,600	1,890	2,160	1,010	1,440
30	1,220	2,520	7,700	2,500	------	2,900	33,000	13,700	1,830	2,040	935	1,360
31	1,200	------	6,800	2,950	------	2,900	------	11,600	------	2,260	858	------
TOTAL	96,215	50,564	173,570	86,380	42,630	105,670	223,200	1,025.9M	129,810	73,590	38,678	51,135
MEAN	3,104	1,685	5,599	2,786	1,523	3,409	7,440	33,090	4,327	2,374	1,248	1,705
MAX	12,300	3,100	14,800	5,500	2,900	6,000	33,000	66,000	10,600	6,400	2,100	4,990
MIN	935	974	1,800	1,940	880	860	2,700	11,600	1,830	1,460	655	675
CFSM	1.15	.62	2.07	1.03	.56	1.26	2.76	12.3	1.60	.88	.46	.63
IN.	1.33	.70	2.39	1.19	.59	1.46	3.08	14.13	1.79	1.01	.53	.70

CAL YR 1973 TOTAL 2,244,528 MEAN 6,149 MAX 66,800 MIN 419 CFSM 2.28 IN 30.92
WTR YR 1974 TOTAL 2,097,342 MEAN 5,746 MAX 66,000 MIN 655 CFSM 2.13 IN 28.90

PEAK DISCHARGE (BASE, 27,000 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-01	-	18.67	87,200	5-26	0500	11.37	28,800
5-14	0830	16.62	68,800				

Note.--No gage-height record Apr. 24 to May 5.

01011000 Allagash River near Allagash, Maine

LOCATION.--Lat 47°04'14", long 69°04'51", Aroostook County, on left bank 3.0 mi (4.8 km) upstream from mouth and village of Allagash.

DRAINAGE AREA.--1,250 mi² (3,240 km²), approximately, not including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--July 1910 to November 1910, May to November 1911, September 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 604.6 ft (184.28 m) above mean sea level. Prior to December 1911, non recording gage at site 3.0 mi (4.8 km) downstream at different datum.

AVERAGE DISCHARGE.--43 years (1931-74), 1,892 ft³/s (53.58 m³/s), 20.55 in/yr (522 mm/yr).

EXTREMES.--Current year: Maximum discharge, 26,400 ft³/s (748 m³/s) May 1 (gage height, 11.71 ft or 3.569 m); minimum, 273 ft³/s (7.73 m³/s) Nov. 16 (gage height, 2.02 ft or 0.616 m).
Period of record: Maximum discharge, 29,400 ft³/s (833 m³/s) Apr. 29, 1973 (gage height, 12.33 ft or 3.758 m); maximum gage height, 14.16 ft (4.316 m) Apr. 23, 1960 (backwater from ice); minimum discharge 87 ft³/s (2.46 m³/s) Sept. 11, 1960.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake (usable capacity, about 3.4 billion ft³ or 96.3 million m³), 58 mi (93 km) upstream. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).-- WSP 726: Drainage area. WSP 1231: 1911.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	570	415	640	2,400	1,150	560	1,500	20,700	4,550	1,060	1,150	486
2	552	556	690	2,100	1,200	560	1,680	24,800	4,340	1,030	979	455
3	544	798	720	1,800	1,200	530	1,500	20,600	3,900	1,000	858	447
4	543	725	730	1,700	1,150	560	1,530	17,100	3,560	983	906	533
5	633	635	760	1,600	1,100	700	1,600	15,600	3,270	964	907	656
6	1,390	558	880	1,500	1,050	1,100	1,750	13,800	3,250	980	816	629
7	2,030	478	1,100	1,450	1,000	1,600	1,950	12,900	3,050	1,050	737	575
8	1,870	467	1,400	1,400	950	1,950	2,100	12,400	2,730	1,070	716	523
9	1,650	445	1,800	1,350	900	2,250	2,200	11,800	2,470	1,170	681	482
10	1,490	412	2,100	1,300	860	2,300	2,300	11,500	2,240	1,560	629	485
11	1,370	339	2,300	1,250	820	2,250	2,300	11,900	2,010	1,550	596	605
12	1,290	356	2,200	1,200	790	2,100	2,250	12,200	1,870	1,460	573	624
13	1,190	391	2,100	1,150	760	1,950	2,200	15,200	1,640	1,300	553	859
14	1,120	351	2,000	1,130	720	1,800	2,150	17,100	1,670	1,160	533	1,490
15	1,110	389	1,900	1,100	700	1,700	2,200	15,800	1,340	1,050	506	1,260
16	1,030	323	1,800	1,100	680	1,700	2,500	16,500	1,260	975	466	1,040
17	913	360	1,750	1,070	650	1,800	2,800	15,100	1,260	908	456	859
18	791	437	1,750	1,050	620	1,850	3,300	13,300	1,560	856	722	777
19	688	470	1,800	1,030	600	1,900	3,500	11,500	1,610	855	1,060	718
20	600	420	2,000	1,000	590	1,900	3,600	9,720	1,600	931	1,110	701
21	565	460	2,500	1,000	570	1,800	3,800	8,280	1,750	869	1,000	815
22	499	470	3,100	1,000	560	1,750	4,000	7,260	1,760	750	835	1,110
23	462	430	4,700	990	580	1,700	4,250	6,810	1,740	680	724	1,300
24	443	390	5,800	970	620	1,700	4,600	7,700	1,650	636	706	1,170
25	433	395	6,000	950	600	1,650	5,000	8,390	1,470	606	721	1,050
26	423	415	5,800	940	600	1,600	5,600	8,290	1,320	705	636	1,040
27	409	460	5,000	940	570	1,550	6,700	7,530	1,210	668	588	1,140
28	374	490	4,300	960	560	1,550	8,000	6,820	1,160	664	616	1,060
29	338	525	3,700	1,000	------	1,500	11,000	6,140	1,110	704	587	957
30	330	580	3,200	1,050	------	1,500	16,000	5,500	1,080	694	538	1,090
31	353	------	2,800	1,100	------	1,500	------	4,860	------	845	505	------
TOTAL	25,993	13,900	77,320	38,580	22,150	48,800	113,660	377,080	63,190	29,732	22,406	24,916
MEAN	839	463	2,494	1,245	791	1,574	3,789	12,160	2,106	959	723	831
MAX	2,030	798	6,000	2,400	1,200	2,300	16,000	24,800	4,550	1,560	1,150	1,490
MIN	330	323	640	940	560	530	1,480	4,860	1,080	606	456	447
CFSM	.67	.37	2.00	1.00	.63	1.26	3.03	9.73	1.68	.77	.58	.66
IN.	.77	.41	2.30	1.15	.66	1.45	3.38	11.22	1.88	.88	.67	.74

CAL YR 1973 TOTAL 906,457 MEAN 2,483 MAX 27,200 MIN 323 CFSM 1.99 IN 26.98
WTR YR 1974 TOTAL 857,717 MEAN 2,350 MAX 24,800 MIN 323 CFSM 1.88 IN 25.53

01011500 St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick

(International gaging station)

LOCATION.--Lat 47°12'25", long 68°57'25", Madawaska County, on left bank at outlet of Glasier Lake, 4.0 mi (6.4 km) upstream from mouth and 6.5 mi (10.5 km) west of Connors.

DRAINAGE AREA.--520 mi^3 (1,347 km^3).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 550 ft (168 m), from International Boundary Map.

AVERAGE DISCHARGE.--23 years, 872 ft^3/s, (24.7 m^3/s), 22.77 in/yr (578 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,400 ft^3/s (323 m^3/s) May 16 (gage height, 13.09 ft or 3.990 m); minimum, 143 ft^3/s (4.05 m^3/s) Sept. 11 (gage height, 2.39 ft or 0.728 m).

Period of record: Maximum discharge, 13,000 ft^3/s (368 m^3/s) May 12, 1969 (gage height, 14.01 ft or 4.270 m); minimum, 68 ft^3/s (1.93 m^3/s) Sept. 11, 12, 1960, Oct. 3, 1968.

CORRECTIONS.--The maximum discharge for water year 1952 occurred on May 2, 1952; the date previously published in WSP 1231 and 1721 was in error.

REMARKS.--Records excellent.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

REVISIONS.--WSP 1621: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	281	281	1.170	421	256	544	4.530	2.770	406	374	197
2	221	297	308	1.080	419	255	522	6.180	2.570	385	359	185
3	220	311	312	1.000	418	247	514	7.570	2.400	373	344	184
4	215	336	326	937	406	251	499	7.910	2.210	352	394	183
5	217	345	338	878	402	258	502	7.310	2.020	335	404	178
6	246	358	367	825	393	267	520	6.410	1.870	338	390	163
7	251	357	389	784	386	280	559	5.750	1.700	356	385	158
8	279	349	422	745	375	307	614	5.340	1.540	360	387	156
9	320	347	453	711	368	334	669	5.110	1.410	381	392	154
10	352	334	490	676	361	380	745	5.080	1.270	494	398	156
11	369	318	531	649	352	425	770	5.360	1.160	590	396	146
12	375	304	608	633	340	456	770	5.780	1.060	647	384	147
13	374	298	660	603	333	479	767	6.780	969	653	373	159
14	388	298	673	561	320	489	756	9.230	891	627	358	176
15	389	291	697	542	303	489	765	11.200	830	593	336	186
16	393	290	683	524	293	477	802	11.200	764	554	324	202
17	401	280	676	502	290	492	866	11.000	726	513	304	216
18	408	272	681	484	284	504	964	10.300	709	478	307	227
19	407	261	623	467	280	510	1.090	8.950	686	475	299	223
20	398	257	576	449	272	511	1.200	7.580	677	469	289	231
21	387	253	620	432	268	515	1.280	6.360	674	453	274	242
22	373	249	723	464	262	539	1.350	5.500	664	452	267	248
23	355	248	846	452	285	531	1.450	4.870	659	443	263	251
24	344	242	1.030	439	286	530	1.600	4.480	629	433	256	247
25	329	251	1.210	426	281	535	1.750	4.360	599	429	249	253
26	317	250	1.350	414	274	542	1.890	4.410	556	419	245	281
27	313	243	1.440	414	269	558	2.080	4.370	521	413	238	292
28	300	242	1.450	414	260	561	2.410	4.110	487	412	235	286
29	288	251	1.390	415	------	557	2.890	3.730	450	406	226	287
30	279	263	1.360	409	------	553	3.520	3.370	426	392	214	309
31	285	------	1.250	409	------	546	------	3.040	------	388	199	------
TOTAL	10.020	8.674	22.735	18.908	9.201	13.634	34.658	197.170	33.897	14.019	9.863	6.323
MEAN	323	289	733	610	329	440	1.155	6.360	1.130	452	318	211
MAX	408	358	1.450	1.170	421	561	3.520	11.200	2.770	653	404	309
MIN	215	242	281	409	260	247	499	3.040	426	335	199	146
CFSM	.62	.56	1.41	1.17	.63	.85	2.22	12.2	2.17	.87	.61	.41
IN.	.72	.62	1.63	1.35	.66	.98	2.48	14.11	2.42	1.00	.71	.45

CAL YR 1973 TOTAL 390.609 MEAN 1.070 MAX 11.600 MIN 215 CFSM 2.06 IN 27.94
WTR YR 1974 TOTAL 379.102 MEAN 1.039 MAX 11.200 MIN 146 CFSM 2.00 IN 27.12

01013500 Fish River near Fort Kent, Maine

LOCATION.--Lat 47°14'14", long 68°34'56", Aroostook County, on right bank 300 ft (91 m) upstream from highway bridge at Fort Kent Mills, 2 mi (3 km) upstream from mouth, and 2 mi (3 km) south of Fort Kent.

DRAINAGE AREA.--871 mi^2 (2,256 km^2).

PERIOD OF RECORD.--July 1903 to December 1908 and May to November 1911 (published as "at Wallagrass"), September 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 511.38 ft (155.869 m) above mean sea level. July 1903 to December 1908 and May to November 1911 nonrecording gage at site 10 mi (16 km) upstream at different datum.

AVERAGE DISCHARGE.--50 years (1903-8, 1929-74, 1,385 ft^3/s (39.22 m^3/s), 21.59 in/yr (548 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,000 ft^3/s (312 m^3/s) May 16 (gage height, 10.04 ft or 3.060 m); minimum, 194 ft^3/s (5.49 m^3/s) Oct. 27, 30 (gage height, 2.53 ft or 0.771 m).
Period of record: Maximum discharge, 15,800 ft^3/s (447 m^3/s) Apr. 30, 1973 (gage height, 12.43 ft or 3.789 m); minimum, 34 ft^3/s (0.963 m^3/s Aug. 29, 1968.

REMARKS.--Records excellent except those for winter period, which are fair. Large lake area above station has not yet been developed for storage. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	248	322	3,670	555	390	950	8,090	4,470	1,220	690	413
2	223	280	331	3,420	560	390	920	9,870	4,170	1,150	666	380
3	225	282	403	3,200	585	395	890	10,000	3,900	1,120	647	367
4	221	265	352	2,990	630	395	870	9,830	3,730	1,040	1,020	393
5	236	259	352	2,600	700	400	880	9,520	3,480	1,010	926	406
6	311	252	483	2,300	780	410	900	9,250	3,300	1,030	845	386
7	275	265	518	2,070	760	450	980	9,040	3,080	1,030	800	367
8	260	250	530	1,850	720	495	1,050	8,920	2,840	989	827	347
9	264	240	564	1,720	680	580	1,150	8,840	2,650	971	775	347
10	265	237	722	1,600	645	660	1,210	8,790	2,470	989	741	347
11	262	232	791	1,460	610	750	1,240	8,930	2,330	953	707	334
12	262	229	851	1,330	580	820	1,240	8,930	2,150	917	673	336
13	263	243	891	1,250	555	880	1,230	9,820	2,010	908	647	367
14	270	239	954	1,140	530	890	1,260	10,600	1,890	881	598	380
15	275	246	1,110	1,060	510	900	1,470	10,700	1,760	854	550	386
16	268	249	1,180	970	490	900	1,700	11,000	1,650	827	511	380
17	260	257	1,310	900	475	950	1,780	10,700	1,680	800	487	380
18	251	256	1,740	860	460	1,030	2,010	10,100	1,860	775	574	360
19	262	255	2,030	800	445	1,170	2,130	9,390	1,990	818	582	354
20	260	254	2,160	760	430	1,220	2,250	8,650	1,880	775	590	360
21	235	254	2,640	715	420	1,200	2,380	7,990	1,880	749	566	367
22	229	249	3,750	680	415	1,180	2,580	7,390	1,850	724	542	413
23	227	257	4,270	650	410	1,160	2,890	6,880	1,830	698	518	428
24	222	255	4,520	630	405	1,110	3,070	6,570	1,760	707	518	428
25	222	271	4,620	610	405	1,080	3,280	6,390	1,700	715	518	428
26	225	273	4,620	590	400	1,050	3,620	6,210	1,620	707	526	518
27	204	273	4,540	570	395	1,030	4,020	5,920	1,550	656	534	558
28	201	286	4,450	565	390	1,020	4,560	5,610	1,460	656	503	566
29	198	325	4,310	560	------	1,000	5,100	5,310	1,380	647	479	590
30	197	332	4,140	560	------	990	6,060	5,000	1,300	622	457	656
31	232	------	3,900	555	------	980	------	4,700	------	673	442	------
TOTAL	7,508	7,802	63,394	42,635	14,940	25,875	63,670	258,940	69,620	26,611	19,457	12,340
MEAN	242	260	2,045	1,375	534	835	2,122	8,353	2,321	858	628	411
MAX	311	332	4,620	3,670	780	1,220	6,060	11,000	4,470	1,220	1,020	656
MIN	197	229	322	555	390	390	870	4,700	1,300	622	442	334
CFSM	.28	.30	2.35	1.58	.61	.96	2.44	9.59	2.66	.99	.72	.47
IN.	.32	.33	2.71	1.82	.64	1.11	2.72	11.06	2.97	1.14	.83	.53

CAL YR 1973 TOTAL 736,654 MEAN 2,018 MAX 15,600 MIN 197 CFSM 2.32 IN 31.46
WTR YR 1974 TOTAL 612,792 MEAN 1,679 MAX 11,000 MIN 197 CFSM 1.93 IN 26.17

ST. JOHN RIVER BASIN

01014000 St. John River below Fish River, at Fort Kent, Maine

(International gaging station)

LOCATION.--Lat 47°15'27", long 68°35'35", Aroostook County, on right bank at Fort Kent, and 0.2 mi (0.3 km), downstream from Fish River.

DRAINAGE AREA.--5,690 mi^2 (14,740 km^2), approximately, not including 249 mi^2 (645 km^2) drained by Chamberlain Lake through Telos Canal.

RECORDS AVAILABLE.--October 1926 to current year. Prior to October 1931, published as "at Fort Kent."

GAGE.--Water-stage recorder. Datum of gage is 488.9 ft (149.02 m) above mean sea level. Prior to Oct. 10, 1933, non-recording gage on opposite bank at same datum.

AVERAGE DISCHARGE.--48 years, 9,565 ft^3/s (271 m^3/s), 22.83 in/yr (580 mm/yr).

EXTREMES.--Current year: Maximum discharge, 148,000 ft^3/s (4,190 m^3/s) May 1 (gage height, 26.95 ft or 8.21 m); minimum daily, 1,550 ft^3/s (43.9 m^3/s) Sept. 11.
Period of record: Maximum discharge, 148,000 ft^3/s (4,190 m^3/s) May 1, 1974 (gage height, 26.95 ft or 8.21 m); minimum daily, 510 ft^3/s (14.4 m^3/s) Mar. 13-15, 1948.

REMARKS.--Records excellent except those for winter period and periods of no gage-height record, which are fair. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.630	2.530	2.900	14.700	6.200	2.800	5.500	88.000	30.000	4.400	4.590	2.100
2	2.640	3.030	3.100	12.500	6.100	2.700	5.200	130.000	28.000	4.200	4.210	2.000
3	2.330	3.820	3.450	10.000	5.900	2.600	5.000	115.000	26.000	4.000	3.870	1.900
4	2.250	4.400	3.450	9.850	5.600	2.500	5.100	98.000	23.000	3.800	4.680	1.800
5	2.250	4.560	3.750	9.200	5.200	2.700	5.300	84.000	21.000	3.700	4.590	1.800
6	3.630	4.990	4.500	8.900	4.850	3.100	5.800	69.000	19.000	3.700	4.300	1.750
7	12.300	3.440	5.300	8.300	4.400	3.800	6.900	64.000	17.000	3.800	3.860	1.700
8	13.200	2.470	5.550	7.600	4.200	5.000	8.100	58.000	15.000	4.000	3.890	1.650
9	10.600	2.770	6.000	6.850	3.950	8.400	10.000	55.000	14.000	5.000	4.280	1.600
10	8.680	2.810	9.100	6.350	3.700	10.000	11.000	54.000	12.000	6.500	3.960	1.600
11	6.570	2.550	10.000	6.100	3.500	10.500	11.000	59.000	11.000	9.550	3.580	1.550
12	5.800	1.990	9.100	5.800	3.600	10.500	10.800	64.000	9.600	9.360	3.270	1.600
13	5.150	2.200	8.000	5.600	3.200	10.000	10.500	70.000	8.600	8.100	2.960	1.800
14	4.820	2.690	7.800	5.400	3.100	9.000	10.000	110.000	7.800	6.790	2.740	2.300
15	4.950	2.550	7.860	5.250	3.000	8.600	12.000	109.000	7.200	5.750	2.520	4.500
16	5.660	2.360	7.960	5.150	2.950	7.900	16.000	98.000	6.400	5.060	2.300	6.000
17	5.830	2.020	7.510	5.000	2.850	7.400	23.700	94.000	6.200	4.500	2.160	5.000
18	5.180	2.670	7.400	4.900	2.800	7.200	28.400	84.000	6.400	4.070	2.380	4.200
19	4.550	2.450	7.180	4.800	2.700	6.900	31.200	68.000	7.600	3.990	2.980	3.400
20	4.060	2.970	7.300	4.700	2.600	6.600	30.500	56.000	8.400	4.020	3.280	2.900
21	3.690	2.860	7.700	4.600	2.600	6.500	24.100	47.000	8.400	4.070	3.200	2.750
22	3.600	2.650	12.500	4.550	2.550	6.400	23.800	47.000	8.600	3.960	3.050	3.000
23	3.190	2.800	20.000	4.450	2.600	6.300	24.000	49.000	8.800	4.070	3.000	3.300
24	3.020	2.830	25.500	4.400	2.700	6.200	28.400	50.000	8.200	3.800	2.900	3.500
25	2.880	2.600	27.500	4.300	2.700	6.200	33.600	48.000	6.800	3.680	2.700	3.900
26	2.770	2.350	28.000	4.250	2.700	6.100	37.400	47.000	5.800	3.630	2.600	3.800
27	2.660	2.200	27.500	4.200	2.800	6.000	42.100	45.000	5.600	3.660	2.500	3.700
28	2.520	2.350	25.500	4.150	2.800	5.900	44.500	43.000	5.300	3.910	2.400	3.500
29	2.380	2.650	22.800	4.250	------	5.900	53.600	41.000	5.000	4.090	2.300	3.200
30	2.260	2.900	20.000	4.600	------	5.900	74.700	37.000	4.700	4.100	2.250	3.200
31	2.400	-------	16.800	5.400	------	5.800	-------	34.000	-------	4.570	2.200	-------
TOTAL	143.910	85.140	360.890	196.100	101.650	195.400	640.200	2.113.0M	351.400	147.830	99.500	85.000
MEAN	4.642	2.838	11.640	6.326	3.630	6.303	21.340	68.160	11.710	4.769	3.210	2.833
MAX	13.200	4.560	28.000	14.700	6.200	10.500	74.700	130.000	30.000	9.550	4.680	6.000
MIN	2.250	1.990	2.900	4.150	2.550	2.500	5.000	34.000	4.700	3.630	2.160	1.550
CFSM	.82	.50	2.05	1.11	.64	1.11	3.75	12.0	2.06	.84	.56	.50
IN.	.94	.56	2.36	1.28	.66	1.28	4.19	13.81	2.30	.97	.65	.56

CAL YR 1973	TOTAL 4.647.950	MEAN 12.730	MAX 130.000	MIN 1.840	CFSM 2.24	IN 30.39
WTR YR 1974	TOTAL 4.520.020	MEAN 12.380	MAX 130.000	MIN 1.550	CFSM 2.18	IN 29.55

PEAK DISCHARGE (BASE, 45,000 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-01	--	26.95	148,000	5-14	--	--	115,000

M Expressed in thousands.

Note.--No gage-height record May 1 to July 10, Aug. 21 to Sept. 30.

01015800 Aroostook River near Masardis, Maine

LOCATION.--Lat 46°31'21", long 68°22'23", Aroostook County, on left bank 180 ft (55 m) upstream from new highway bridge and 1.8 miles (2.9 km) downstream from St. Croix Stream and Masardis.

DRAINAGE AREA.--888 mi² (2,300 km²).

PERIOD OF RECORD.--September 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 530.0 ft (161.54 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 1,599 ft³/s (45.28 m³/s), 22.50 in/yr (572 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 17,200 ft³/s (487 m³/s) May 2 (gage height, 15.56 ft or 4.743 m); maximum gage height, 16.68 ft (5.084 m) Dec. 23 (backwater from ice); minimum daily discharge, 164 ft³/s (4.64 m³/s) Oct. 30.
Period of record: Maximum discharge, 21,500 ft³/s (609 m³/s) Apr. 25, 1958 (gage height, 16.30 ft or 4.968 m); minimum, 41 ft³/s (1.16 m³/s) Sept. 26, 27, 1968 (gage height, 1.89 ft or 0.576 m).

REMARKS.--Records excellent. Considerable regulation by Millinocket Lake (capacity 1,110,000,000 ft³ or 31,400,000 m³) used for power. Records of chemical analyses for the water year 1974 are published in part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	275	490	2,050	800	310	1,160	15,000	2,840	676	583	266
2	185	500	680	1,900	750	310	1,150	17,000	2,720	680	587	236
3	178	839	665	1,700	700	300	1,150	15,600	2,500	630	556	221
4	179	846	660	1,600	650	300	1,150	12,800	2,260	588	531	292
5	214	717	730	1,450	600	320	1,180	10,600	2,050	536	628	529
6	347	472	1,400	1,350	560	520	1,250	8,680	1,920	504	704	572
7	635	360	2,000	1,300	520	850	1,400	7,270	1,680	512	629	481
8	580	320	2,400	1,200	490	1,200	1,450	6,840	1,340	492	535	389
9	487	295	2,050	1,150	460	1,450	1,500	7,230	1,170	503	456	326
10	420	280	1,600	1,050	440	1,500	1,500	6,870	1,040	1,460	395	451
11	358	265	1,850	980	410	1,450	1,450	6,920	938	2,000	350	657
12	337	260	1,800	930	390	1,400	1,400	7,030	885	1,740	314	607
13	313	250	1,700	890	370	1,300	1,350	7,470	827	1,310	286	533
14	295	250	1,600	850	355	1,250	1,300	9,510	741	962	263	613
15	280	250	1,400	810	340	1,200	1,300	9,360	678	825	240	624
16	271	280	1,250	780	330	1,150	1,450	8,640	621	1,150	221	533
17	247	360	1,200	740	320	1,150	1,700	7,910	650	1,100	207	443
18	233	420	1,600	700	310	1,150	2,100	6,760	1,690	849	535	376
19	217	395	2,500	670	300	1,200	2,450	5,710	2,610	783	845	324
20	205	360	3,500	640	295	1,300	2,700	4,700	2,830	987	814	289
21	202	340	4,500	620	290	1,300	2,650	4,000	2,540	1,000	667	271
22	197	330	4,000	600	300	1,300	2,600	3,450	2,100	856	521	350
23	194	335	5,000	600	310	1,280	2,900	3,150	1,780	716	405	525
24	187	325	6,000	605	330	1,250	3,700	3,890	1,490	608	413	533
25	183	320	5,300	610	340	1,240	4,900	4,790	1,230	563	643	464
26	179	325	4,600	610	340	1,230	5,200	5,780	1,020	548	581	598
27	176	335	4,000	620	330	1,200	5,000	5,790	922	528	458	963
28	171	355	3,400	650	320	1,200	5,500	5,020	856	471	419	968
29	165	375	3,000	690	------	1,180	7,000	4,230	752	480	393	837
30	164	410	2,600	730	------	1,180	10,000	3,520	676	499	339	878
31	190	------	2,300	780	------	1,170	------	3,090	------	513	298	------
TOTAL	8,209	11,445	75,775	29,855	11,950	33,140	79,540	228,610	45,356	25,067	14,816	15,149
MEAN	265	382	2,444	963	427	1,069	2,651	7,375	1,512	809	478	505
MAX	635	846	6,000	2,050	800	1,500	10,000	17,000	2,840	2,000	845	968
MIN	164	250	490	600	290	300	1,150	3,090	621	471	207	221
MEAN*	285	407	2,640	755	288	1,069	2,898	7,470	1,469	800	456	496
CFSM*	.32	.46	2.97	.85	.32	1.20	3.26	8.41	1.65	.90	.51	.56
IN. *	.37	.51	3.42	.98	.34	1.38	3.64	9.70	1.84	1.04	.59	.62

CAL YR 1973 TOTAL 738,114 MEAN 2,022 MAX 20,500 MIN 51 MEAN* 2,024 CFSM* 2.28 IN * 30.94
WTR YR 1974 TOTAL 578,911 MEAN 1,586 MAX 17,000 MIN 164 MEAN* 1,599 CFSM* 1.80 IN * 24.43

*Adjusted for change in contents in Millinocket Lake. Records furnished by Maine Public Service Co.

ST. JOHN RIVER BASIN

01016500 Machias River near Ashland, Maine

LOCATION.--Lat 46°37'42", long 68°26'07", Aroostook County, on right bank 100 ft (30 m) upstream from highway bridge, 0.8 mi (1.3 km) upstream from mouth, and 1.5 mi (2.4 km) west of Ashland.

DRAINAGE AREA.--330 mi^3 (855 km^2).

PERIOD OF RECORD.--June 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 535 ft (163 m), from topographic map.

AVERAGE DISCHARGE.--23 years, 557 ft^3/s (15.77 m^3/s), 22.92 in/yr (582 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,560 ft^3/s (242 m^3/s) May 2 (gage height, 7.62 ft or 2.323 m); maximum gage height, 8.35 ft (2.545 m) Apr. 20 (backwater from ice); minimum discharge, 45 ft^3/s (1.27 m^3/s) Sept. 3, 4, 29, 30 (gage height, 0.56 ft or 0.171 m).

Period of record: Maximum discharge, 16,600 ft^3/s (470 m^3/s) June 29, 1954 (gage height, 11.94 ft or 3.639 m), from rating curve extended above 7,900 ft^3/s (224 m^3/s); minimum, 5.4 ft^3/s (0.15 m^3/s) Sept. 17, 1952.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	89	200	640	320	130	370	6.990	990	276	330	95
2	48	121	230	560	290	125	365	7.980	903	262	406	88
3	45	159	220	520	260	125	360	6.720	804	244	406	85
4	46	164	210.	470	230	125	360	5.230	701	231	367	104
5	52	153	220	430	210	130	370	4.020	623	210	411	137
6	84	105	275	400	190	200	390	3.220	630	206	423	141
7	125	96	360	370	180	400	430	2.880	610	227	389	125
8	127	90	620	340	170	540	480	3.030	542	240	320	113
9	125	88	760	320	150	680	520	3.120	477	236	285	103
10	120	86	520	300	140	660	530	2.980	423	672	267	113
11	109	84	460	290	140	600	520	3.000	383	864	231	121
12	101	83	520	275	130	560	520	2.980	362	789	183	119
13	95	82	560	260	120	500	500	3.550	330	651	187	149
14	88	81	520	250	120	470	490	4.300	305	522	172	235
15	84	80	430	230	100	450	520	4.240	276	417	150	266
16	80	80	340	220	98	420	600	3.980	249	465	132	259
17	74	105	310	210	92	410	740	3.620	285	400	120	232
18	71	110	450	200	88	450	800	3.180	562	335	197	196
19	66	100	660	190	85	480	860	2.600	569	351	253	170
20	62	90	1.050	180	84	490	840	2.090	562	446	224	150
21	61	92	1.250	180	84	460	780	1.700	603	411	196	139
22	58	94	940	190	86	440	780	1.430	596	356	168	168
23	56	92	760	200	100	430	800	1.330	569	276	149	196
24	54	88	2.500	220	130	420	880	1.540	509	295	144	190
25	53	86	2.000	250	150	410	1.100	1.900	440	295	157	178
26	51	92	1.700	240	140	400	1.300	2.200	383	276	154	233
27	50	100	1.400	230	135	390	1.600	2.140	367	258	134	307
28	49	96	1.100	240	130	390	1.900	1.880	345	258	126	295
29	48	100	1.000	270	------	380	2.600	1.570	310	272	118	273
30	47	130	860	310	------	380	5.000	1.310	290	262	109	290
31	64	------	720	330	------	375	------	1.100	------	258	102	------
TOTAL	2.245	3.016	23.145	9.315	4.152	12.420	27.305	97.810	14.998	11.261	7.010	5.270
MEAN	72.4	101	747	300	148	401	910	3.155	500	363	226	176
MAX	127	164	2.500	640	320	680	5.000	7.980	990	864	423	307
MIN	45	80	200	180	84	125	360	1.100	249	206	102	85
CFSM	.22	.31	2.26	.91	.45	1.22	2.76	9.56	1.52	1.10	.68	.53
IN.	.25	.34	2.61	1.05	.47	1.40	3.08	11.03	1.69	1.27	.79	.59

CAL YR 1973 TOTAL 265.496 MEAN 727 MAX 10.700 MIN 44 CFSM 2.20 IN 29.93
WTR YR 1974 TOTAL 217.947 MEAN 597 MAX 7.980 MIN 45 CFSM 1.81 IN 24.57

PEAK DISCHARGE (BASE, 3,200 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-02	1900	7.62	8,560	5-14	1800	5.14	4,280

01017000 Aroostook River at Washburn, Maine

LOCATION.--Lat 46°46'36", long 68°09'29", Aroostook County, on right bank 50 ft (15 m) upstream from Bangor & Aroostook Railroad bridge, 0.1 mi (0.2 km) downstream from Salmon Brook, and 1.0 mi (1.6 km) south of railroad station at Washburn.

DRAINAGE AREA.--1,652 mi² (4,279 km²).

PERIOD OF RECORD.--August 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 436.40 ft (133.015 m) above mean sea level. Prior to Oct. 1, 1948, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--44 years, 2,607 ft³/s (73.83 m³/s), 21.43 in/yr (544 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 42,500 ft³/s (1,204 m³/s) May 2 (gage height, 13.58 ft or 4.139 m); maximum gage height, 20.91 ft (6.373 m) Dec. 24 (backwater from ice); minimum daily discharge, 267 ft³/s (7.56 m³/s) Oct. 28.

Period of record: Maximum discharge, 43,100 ft³/s (1,220 m³/s) Apr. 30, 1973 (gage height, 13.68 ft or 4.170 m, present datum); maximum gage height, 15.78 ft (4.810 m) Apr. 6, 1951 (backwater from ice); minimum daily discharge, 75 ft³/s (2.12 m³/s) Feb. 13-15, 1948.

REMARKS.--Records excellent except those for winter period, which are fair. Considerable regulation by Squa Pan Lake (capacity, 2,893,000,000 ft³ or 81,900,000 m³), and by Millinocket Lake (capacity, 1,110,000,000 ft³ or 31,400,000 m³) used for power.

REVISIONS (WATER YEARS).--WSP 951: 1935. WSP 1301: 1933-50 (adjusted monthly runoff). WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	331	372	860	3.600	1.300	660	1.880	33.000	4.910	1.400	1.150	365
2	428	550	1.050	3.150	1.250	640	1.880	38.300	4.520	1.400	1.240	318
3	402	910	1.250	2.800	1.150	620	1.880	30.000	4.750	1.330	1.170	291
4	388	1.140	1.150	2.500	1.100	640	1.900	24.200	4.000	1.310	1.210	323
5	404	980	1.050	2.350	1.000	660	1.950	19.900	3.690	1.130	1.330	482
6	432	680	1.300	2.200	960	980	2.100	15.500	3.460	1.120	1.490	735
7	648	540	3.100	2.000	920	1.400	2.250	13.200	3.320	1.050	1.420	685
8	856	500	3.900	1.900	860	2.000	2.500	12.400	2.820	1.100	1.180	556
9	776	460	3.300	1.750	840	2.700	2.600	13.100	2.480	1.170	1.020	454
10	698	440	3.000	1.600	800	2.900	2.550	12.800	2.230	2.240	825	424
11	625	410	3.300	1.500	780	2.700	2.500	12.700	1.880	3.830	895	750
12	565	380	3.200	1.450	740	2.500	2.400	13.000	1.800	3.600	590	999
13	519	360	3.000	1.350	720	2.300	2.300	14.000	1.660	2.940	530	1.020
14	488	350	2.600	1.300	700	2.100	2.300	17.200	1.500	2.190	473	1.100
15	450	340	2.400	1.250	680	2.000	2.350	17.300	1.270	1.810	430	1.070
16	433	330	2.250	1.200	720	1.900	2.700	16.600	1.080	1.960	389	983
17	415	360	2.200	1.150	700	1.800	3.200	15.200	1.200	2.090	359	906
18	386	500	2.700	1.100	680	1.750	4.000	13.100	2.550	1.760	616	677
19	364	640	4.000	1.100	660	1.700	4.800	10.900	4.030	1.580	1.290	546
20	346	600	7.000	1.050	640	1.850	5.000	8.960	4.480	1.810	1.330	460
21	336	540	8.600	1.050	640	1.950	5.000	7.500	4.350	1.900	1.150	411
22	323	590	7.800	1.050	630	2.000	5.000	6.510	3.810	1.710	995	467
23	315	550	10.000	1.050	640	2.100	5.900	5.820	3.510	1.420	875	681
24	309	520	14.000	1.050	650	2.050	8.000	6.430	3.050	1.130	784	810
25	303	530	12.500	1.050	660	2.000	9.400	8.210	2.620	1.040	1.090	752
26	296	560	10.500	1.050	680	1.980	9.800	9.850	2.250	1.030	1.310	839
27	300	590	8.600	1.100	680	1.950	10.000	10.100	2.030	1.030	1.010	1.430
28	267	620	7.000	1.150	660	1.900	11.500	8.910	1.880	1.010	807	1.640
29	295	680	5.600	1.200	------	1.900	15.500	7.450	1.680	968	718	1.430
30	295	740	4.700	1.300	------	1.900	25.000	6.160	1.490	978	487	1.380
31	310	------	4.200	1.350	------	1.880	------	5,410	------	989	417	------
TOTAL	13.303	16.762	146.110	48.700	22.440	55.410	158.140	433.710	84.300	50.025	28.580	22.984
MEAN	429	559	4.713	1.571	801	1.787	5.271	13.990	2.810	1.614	922	766
MAX	856	1.140	14.000	3.600	1.300	2.900	25.000	38.300	4.910	3.830	1.490	1.640
MIN	267	330	860	1.050	630	620	1.880	5.410	1.080	968	359	291
MEAN*	431	602	5,172	1,127	385	1,653	5,816	14,410	2,685	1,577	890	675
CFSM*	.26	.36	3.13	.68	.23	1.00	3.52	8.72	1.63	.96	.54	.41
IN. *	.30	.41	3.61	.71	.24	1.15	3.93	10.05	1.82	1.10	.62	.46

CAL YR 1973 TOTAL 1.340.161 MEAN 3.672 MAX 42.400 MIN 267 MEAN* 3,680 CFSM* 2.23 IN * 30.23
WTR YR 1974 TOTAL 1.080.464 MEAN 2.960 MAX 38.300 MIN 267 MEAN* 2,985 CFSM* 1.81 IN * 24.40

* Adjusted for change in contents in Millinocket and Squa Pan Lakes. Records furnished by Maine Public Service Co.

01017900 Marley Brook near Ludlow, Maine

LOCATION.--Lat 46°08'42", long 68°03'42", Aroostook County, on left bank at upstream entrance of culvert under U.S. Route 2, 2,200 ft (671 m) upstream from mouth, and 1.1 mi (1.8 km) west of Ludlow.

DRAINAGE AREA.--1.47 mi² (3.81 km²).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage 610 ft (186 m), topographic map.

AVERAGE DISCHARGE.--10 years (1965-74), 2.54 ft³/s (0.0719 m³/s), 23.46 in/yr (596 mm/yr).

EXTREMES.--Current year: Maximum discharge, 142 ft³/s (4.02 m³/s) Dec. 21 (gage height, 7.17 ft or 2.185 m, from floodmark); minimum discharge, 0.02 ft³/s (0.001 m³/s) Aug. 16 (gage height, 3.48 ft or 1.061 m).
Period of record: Maximum discharge, 335 ft³/s (9.49 m³/s) July 5, 1973 (gage height, 10.36 ft or 3.158 m); minimum discharge, 0.02 ft³/s (0.001 m³/s) Aug. 31, Sept. 1-4, 1966, Aug. 12, 1968, and Aug. 16, 1974.

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.95	1.6	2.0	1.1	.37	3.7	30	2.6	1.9	.73	.08
2	.14	3.8	1.4	1.6	.82	.37	2.8	22	2.2	1.6	.58	.05
3	.14	2.1	1.2	1.4	.64	.37	2.4	17	1.6	.98	1.4	.08
4	.14	1.4	1.5	1.2	.50	.44	3.0	12	1.2	.89	2.2	1.5
5	.21	1.1	2.3	1.1	.41	.80	6.8	10	1.1	.73	3.2	.73
6	.68	1.0	23	.98	.35	1.8	11	6.2	.89	.66	1.4	.27
7	.39	.76	7.0	.88	.32	3.9	10	5.5	.66	.66	.73	.19
8	.14	.73	3.4	.78	.30	8.3	7.2	8.8	.50	.37	.44	.15
9	.10	.63	2.5	.70	.28	5.5	5.3	8.3	.44	.73	.31	.10
10	.14	.58	7.9	.62	.26	2.6	4.2	6.4	.37	2.7	.26	.27
11	.13	.50	5.2	.58	.25	1.6	3.2	9.1	.30	1.1	.26	.19
12	.11	.45	3.9	.56	.24	.90	2.4	6.4	.44	.66	.18	.17
13	.11	.47	3.1	.52	.23	.67	1.8	18	.28	.37	.11	.15
14	.12	.76	3.0	.50	.23	.56	1.9	9.6	.20	.26	.05	.18
15	.09	1.3	3.2	.49	.22	.52	8.3	6.8	.14	.58	.05	.13
16	.09	1.2	3.8	.47	.22	.50	12	5.7	.13	.58	.04	.11
17	.09	1.0	18	.46	.22	5.1	11	4.6	3.7	.66	.04	.10
18	.09	.92	20	.45	.22	12	12	4.4	7.2	.31	.50	.07
19	.09	1.1	13	.44	.22	7.7	12	3.6	8.6	.37	.12	.07
20	.09	1.2	22	.44	.22	3.9	8.8	2.7	4.1	.58	.06	.07
21	.22	.80	100	.44	.22	2.8	7.2	2.4	2.6	.44	.05	.10
22	.31	.50	56	.73	.22	2.7	8.8	2.0	3.4	.37	.05	1.2
23	.31	.55	28	1.1	.50	2.4	19	2.7	2.4	.31	.05	.39
24	.30	.96	17	.89	1.2	4.9	10	6.4	1.6	.26	.05	.19
25	.30	1.0	11	.80	.66	9.4	5.3	9.9	1.1	.31	.07	.14
26	.29	.97	8.2	.80	.50	7.2	8.8	7.2	.89	.37	.07	.89
27	.31	.88	6.0	1.8	.47	3.6	20	5.3	1.2	.37	.07	.58
28	.29	.97	4.6	4.9	.38	2.7	21	3.9	.89	.37	.13	.38
29	.30	2.5	3.7	3.4	------	2.6	24	3.2	.58	.44	.14	.50
30	.32	2.3	2.9	2.4	------	2.2	37	2.7	.58	.50	.11	2.8
31	.80	------	2.4	1.9	------	2.2	------	2.1	------	.66	.09	------
TOTAL	7.01	33.38	386.8	35.33	11.40	100.60	290.9	244.9	51.89	21.09	13.54	11.83
MEAN	.23	1.11	12.5	1.14	.41	3.25	9.70	7.90	1.73	.68	.44	.39
MAX	.80	3.8	100	4.9	1.2	12	37	30	8.6	2.7	3.2	2.8
MIN	.09	.45	1.2	.44	.22	.37	1.8	2.0	.13	.26	.04	.05
CFSM	.23	1.11	12.5	1.14	.41	3.25	9.70	7.90	1.73	.68	.44	.39
IN.	.26	1.24	14.39	1.31	.42	3.74	10.82	9.11	1.93	.78	.50	.44

CAL YR 1973 TOTAL 1,503.64 MEAN 4.12 MAX 100 MIN .09 CFSM 4.12 IN 55.94
WTR YR 1974 TOTAL 1,208.67 MEAN 3.31 MAX 100 MIN .04 CFSM 3.31 IN 44.96

PEAK DISCHARGE (BASE, 25 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	0715	5.12	44	12-21	-	7.17	142
12-18	-	-	30	4-29	-	5.64	67

Note.--No gage-height record Dec. 11 to Jan. 1.

01018000 Meduxnekeag River near Houlton, Maine

LOCATION.--Lat 46°06'17", long 67°52'00", Aroostook County, on right bank 0.3 mi (0.5 km) downstream from South Branch, and 2.0 mi (3.2 km) upstream from Houlton.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--October 1940 to current year. October 1940 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 333.92 ft (101.779 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 289 ft^3/s (8.184 m^3/s), 22.43 in/yr (570 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,330 ft^3/s (123 m^3/s) Apr. 30 (gage height, 7.89 ft or 2.405 m); minimum, 15 ft^3/s (0.42 m^3/s) Sept. 3 (gage height 2.36 ft or 0.719 m).
Period of record: Maximum discharge, 6,620 ft^3/s (187 m^3/s) Apr. 23, 1958 (gage height, 9.30 ft or 2.835 m); maximum gage height, 10.83 ft (3.301 m) Mar. 27, 1953 (backwater from ice); minimum discharge, 3.6 ft^3/s (0.10 m^3/s) Sept. 19, 1946 (gage height, 2.09 ft or 0.637 m).

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 1031: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	46	166	350	175	92	292	3.710	399	148	41	19
2	27	181	209	320	160	90	310	3.050	397	158	38	16
3	28	228	183	300	145	88	281	1.830	345	133	39	16
4	28	184	123	280	130	87	299	1.280	291	117	57	38
5	30	142	164	255	120	91	545	1.140	268	105	90	61
6	42	109	663	235	110	190	831	953	245	109	87	55
7	40	85	1.100	220	99	530	878	830	222	118	64	44
8	39	73	802	205	90	700	847	875	195	110	50	37
9	36	66	588	190	84	600	717	1.050	173	98	41	32
10	35	62	632	180	78	470	567	981	156	128	35	29
11	35	54	721	170	74	380	462	1.000	148	123	30	28
12	34	49	654	160	69	300	387	978	156	100	26	27
13	33	45	526	155	65	260	354	1.120	137	77	24	31
14	35	51	465	145	61	230	361	1.430	119	68	22	61
15	32	66	474	140	58	205	763	1.140	105	93	23	51
16	30	77	530	130	55	185	1.200	910	94	211	20	37
17	29	72	527	130	52	400	1.320	786	130	189	19	30
18	29	71	1.760	120	49	730	1.460	706	486	142	30	27
19	29	83	1.930	115	48	600	1.510	617	747	130	37	27
20	29	59	1.380	110	49	490	1.310	535	675	142	32	25
21	33	76	1.450	100	55	410	1.090	466	518	115	26	25
22	35	60	3.180	110	63	360	957	419	490	90	23	53
23	35	53	2.360	130	85	335	1.320	410	451	75	20	64
24	32	60	1.400	160	115	325	1.600	563	352	63	20	54
25	32	73	989	155	125	370	1.130	725	273	53	19	46
26	31	79	805	150	120	410	1.020	855	221	48	18	51
27	29	92	639	150	105	395	1.130	799	197	43	18	60
28	29	79	565	180	97	378	1.330	676	173	41	21	58
29	28	131	504	230	------	330	1.560	569	148	39	20	55
30	28	184	464	220	------	251	3.660	483	132	38	20	83
31	35	------	410	195	------	219	------	423	------	40	20	------
TOTAL	995	2.690	26.363	5.690	2.536	10.501	29.491	31.309	8.443	3.144	1.030	1.240
MEAN	32.1	89.7	850	184	90.6	339	983	1.010	281	101	33.2	41.3
MAX	42	228	3.180	350	175	730	3.660	3.710	747	211	90	83
MIN	27	45	123	100	48	87	281	410	94	38	18	16
CFSM	.18	.51	4.86	1.05	.52	1.94	5.62	5.77	1.61	.58	.19	.24
IN.	.21	.57	5.60	1.21	.54	2.23	6.27	6.66	1.79	.67	.22	.26

CAL YR 1973 TOTAL 159.397 MEAN 437 MAX 5.650 MIN 18 CFSM 2.50 IN 33.88
WTR YR 1974 TOTAL 123.432 MEAN 338 MAX 3.710 MIN 16 CFSM 1.93 IN 26.24

PEAK DISCHARGE (BASE, 2,100 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	2000	6.08	2,230	4-30	1900	7.89	4,330
12-22	1300	7.21	3,450				

ST. CROIX RIVER BASIN

01018500 St. Croix River at Vanceboro, Maine

(International gaging station)

LOCATION.--Lat 45°34'08", long 67°25'47", Washington County, on right bank at international highway bridge in Vanceboro, and 400 ft (120 m) downstream from outlet of Spednik Lake.

DRAINAGE AREA.--417 mi² (1,080 km²).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 367.75 ft (112.090 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 709 ft³/s (20.08 m³/s), 23.09 in/yr 586 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,520 ft³/s (156 m³/s) May 27 (gage height 10.06 ft or 3.066 m); minimum daily, 212 ft³/s (6.0 m³/s) March 18-27.
Period of record: Maximum discharge, 6,040 ft³/s (171 m³/s) April 29, 1973 (gage height, 10.43 ft or 3.179 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Oct. 22, Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

REMARKS.--Records excellent. Flow regulated by Chiputneticook Lakes (combined usable capacity, about 13,200,000,000 ft³ or 374,000,000 m³). Final regulation is at Spednik Lake Dam about 400 ft (120 m) upstream.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

REVISIONS.--WSP 1431: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,540	1,160	708	261	917	593	498	2,790	693	699	836	742
2	1,510	877	696	263	915	593	498	4,380	1,030	698	835	742
3	1,490	475	684	265	915	593	498	3,030	1,290	698	830	735
4	1,480	312	688	542	910	593	498	2,320	895	696	829	734
5	1,530	312	688	1,100	1,050	593	392	2,310	502	698	828	732
6	1,590	312	692	1,100	1,280	512	216	1,950	498	697	823	732
7	1,570	601	701	1,100	1,330	376	216	1,220	498	698	827	732
8	1,550	779	703	1,250	1,330	320	216	1,080	495	499	816	729
9	1,540	784	703	1,400	1,300	264	216	1,250	490	371	814	722
10	1,520	784	420	1,400	1,280	233	216	1,250	490	371	809	724
11	1,500	765	257	1,390	1,260	233	216	1,250	490	371	807	722
12	1,490	764	257	1,360	1,260	233	216	1,250	570	556	803	718
13	1,480	756	257	1,360	1,040	233	216	1,650	712	679	801	715
14	1,470	738	257	1,360	560	480	216	2,340	818	683	797	713
15	1,460	738	238	1,360	560	742	220	2,340	902	749	793	712
16	1,430	743	216	1,350	560	742	222	2,340	899	879	792	707
17	1,420	747	217	1,350	560	431	222	1,960	918	1,070	787	700
18	1,400	743	224	1,460	560	212	226	1,240	926	1,240	788	698
19	1,390	736	225	1,580	550	212	229	1,230	928	1,090	786	695
20	1,370	728	225	1,550	560	212	231	1,240	914	872	780	688
21	1,370	728	227	1,550	550	212	231	790	828	869	775	686
22	1,350	715	235	1,560	610	212	232	461	713	866	772	690
23	1,330	708	238	1,430	635	212	236	457	714	863	769	683
24	1,310	708	240	1,260	530	212	239	653	747	861	766	681
25	1,290	708	240	1,240	600	212	241	1,310	701	856	762	678
26	1,270	708	243	1,240	600	212	245	2,520	698	853	758	599
27	1,250	700	251	1,240	595	212	250	3,060	598	850	757	536
28	1,230	693	257	1,210	593	377	250	1,130	700	845	756	506
29	1,210	699	257	1,180	-------	498	254	1,470	731	840	752	508
30	1,180	708	260	1,180	-------	498	1,090	1,140	698	840	746	435
31	1,180	-------	261	1,030	-------	498	-------	698	-------	839	742	-------
TOTAL	43,700	20,929	11,765	36,921	23,470	11,755	8,946	52,109	22,156	23,696	24,536	20,354
MEAN	1,410	698	380	1,191	838	379	298	1,681	739	764	791	679
MAX	1,590	1,160	708	1,580	1,330	742	1,090	4,380	1,290	1,240	836	742
MIN	1,180	312	216	261	560	212	216	457	490	371	742	435

CAL YR 1973	TOTAL	407,130	MEAN	1,115	MAX	5,800	MIN	216
WTR YR 1974	TOTAL	300,347	MEAN	823	MAX	4,380	MIN	212

01019000 Grand Lake Stream at Grand Lake Stream, Maine

LOCATION.--45°10'23", long 67°46'06", Washington County, on left bank at Big Falls, 0.5 mi (0.8 km) southeast of village of Grand Lake Stream, and 0.8 mi (1.3 km) downstream from outlet dam of Grand Lake.

DRAINAGE AREA.--224 mi² (580 km²).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 273.96 ft (83.503 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 394 ft³/s (11.16 m³/s), 23.89 in yr (607 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,400 ft³/s (39.6 m³/s) May 29 (gage height, 4.55 ft or 1.387 m); minimum daily, 111 ft³/s (3.14 m³/s) Oct. 29, 30.
Period of record: Maximum discharge, 2,840 ft³/s (80.4 m³/s) June 12, 1952 (gage height, 6.35 ft or 1.935 m); minimum daily, 5 ft³/s (0.14 m³/s) Dec. 3-6, 11, 1945.

REMARKS.--Records excellent, except for period of no gage-height record, which are good. Flow completely regulated by Grand Lake, 0.8 mi (1.3 km) upstream, and other lakes (combined usable capacity, about 8,250,000,000 ft³ or 234,000,000 m³). Records of chemical analyses for water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	603	117	327	178	820	554	298	158	449	609	414	378
2	605	120	325	414	815	550	298	158	447	607	414	378
3	610	118	319	551	810	545	299	157	445	604	414	376
4	605	118	319	551	805	546	302	157	444	604	412	381
5	692	116	318	551	800	553	306	157	443	600	412	390
6	816	116	328	549	800	548	230	157	441	565	410	378
7	784	116	331	546	795	423	161	157	441	445	410	378
8	758	273	329	546	795	331	162	161	441	442	409	378
9	742	336	332	545	790	222	162	161	440	442	406	375
10	734	336	236	541	785	172	162	160	441	445	406	497
11	726	333	150	732	785	171	162	162	441	445	405	586
12	720	330	151	847	780	171	162	162	436	437	403	592
13	708	329	151	840	775	231	152	167	425	427	401	639
14	694	327	151	833	775	217	162	167	423	423	400	679
15	678	326	154	892	770	267	170	167	424	423	398	670
16	667	335	154	918	765	268	167	425	432	423	396	665
17	654	334	164	907	760	232	157	656	438	422	393	656
18	644	333	176	896	760	157	167	658	453	421	393	653
19	636	330	179	889	755	156	167	659	450	426	392	632
20	627	329	171	880	610	155	157	658	679	427	390	614
21	623	324	172	866	565	155	167	653	857	425	389	688
22	611	323	179	866	565	155	157	455	856	423	389	732
23	613	323	176	864	565	154	169	305	853	423	388	718
24	297	321	176	855	560	162	170	394	846	423	385	796
25	116	322	204	847	560	160	170	492	839	420	386	825
26	116	323	178	840	555	159	170	497	835	419	384	816
27	115	319	178	834	555	157	170	497	753	419	381	806
28	112	319	178	835	557	157	172	497	614	419	381	793
29	111	324	178	830	------	240	160	905	611	416	381	806
30	111	323	178	825	------	295	158	552	609	414	381	816
31	112	------	178	820	------	297	------	450	------	415	380	------
TOTAL	16,641	8,293	6,740	22,888	20,032	8,560	5,706	11,161	16,706	14,253	12,303	18,081
MEAN	537	276	217	738	715	276	190	360	557	460	397	633
MAX	816	336	332	918	820	554	306	905	857	609	414	825
MIN	111	116	150	178	555	154	158	157	423	414	380	375

CAL YR 1973 TOTAL 224,845 MEAN 616 MAX 1,960 MIN 111
WTR YR 1974 TOTAL 161,364 MEAN 442 MAX 918 MIN 111

Note.--No gage-height record Jan. 28 to Feb. 27.

01020000 St. Croix River near Baileyville, Maine

(International gaging station)

LOCATION.--Lat 45°15'55", long 67°28'36", Washington County, in township of Baileyville, on right bank 700 ft (213 m) downstream from powerhouse of Georgia-Pacific Corporation, at Grand Falls, and 8 mi (13 km) upstream from village of Woodland.

DRAINAGE AREA.--1,320 mi² (3,419 km²).

PERIOD OF RECORD.--October 1919 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 148.8 ft (45.42 m) above mean sea level.

AVERAGE DISCHARGE.--55 years, 2,300 ft³/s (65.14 m³/s), 23.66 in/yr 601 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,730 ft³/s (247 m³/s) May 3 (gage height, 6.44 ft or 1.763 m); minimum daily, 1,020 ft³/s (28.9 m³/s) Sept. 22.
Period of record: Maximum discharge, about 23,300 ft³/s (660 m³/s) May 1, 1923 (gage height, 13.90 ft or 4.237 m); minimum daily, 64 ft³/s (1.81 m³/s) Oct. 13, 1957.

REMARKS.--Records excellent. Flow regulated by Chiputneticook Lakes, Grand and other lakes (combined capacity about 25,000,000,000 ft³ or 708,000,000 m³). Final regulation is at Grand Falls Dam about 700 ft (213 m) upstream. Records of chemical analyses for water year 1974 are published in Part 2 of this report.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

REVISIONS (WATER YEARS).--WSP 1231: 1922.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,750	2,020	2,420	3,050	3,170	2,030	2,140	5,770	3,400	2,200	1,370	1,300
2	2,700	2,240	2,420	3,060	3,090	2,020	1,980	7,600	3,350	2,150	1,510	1,380
3	2,680	2,550	2,240	2,820	2,940	2,020	1,970	8,270	3,350	2,080	1,500	1,450
4	2,700	2,560	2,050	2,680	2,650	1,980	1,980	8,320	2,900	2,010	1,400	1,730
5	2,640	2,400	1,520	2,690	2,850	2,180	2,280	7,160	2,500	2,080	1,540	1,970
6	2,730	2,540	2,020	2,690	2,900	2,280	2,610	5,540	2,040	2,150	1,660	1,550
7	2,710	2,580	2,040	2,680	2,750	2,320	2,630	5,030	1,920	2,100	1,560	1,300
8	2,610	2,610	2,200	2,640	2,690	2,660	2,620	5,000	1,890	2,150	1,520	1,350
9	2,510	2,430	2,420	2,710	2,700	2,800	2,650	4,450	1,740	2,270	1,600	1,370
10	2,490	2,360	2,630	2,560	2,590	2,620	2,750	4,180	1,420	1,720	1,590	1,390
11	2,510	2,590	2,830	2,720	2,680	2,550	2,670	4,170	1,340	1,580	1,390	1,380
12	2,500	2,440	2,970	2,910	2,660	2,720	2,540	4,130	1,410	1,840	1,410	1,410
13	2,480	2,600	2,970	2,900	2,350	2,740	2,750	4,160	2,370	2,080	1,420	1,390
14	2,480	2,580	2,980	2,820	2,090	2,230	2,720	4,850	2,210	2,220	1,460	1,300
15	2,490	2,560	3,020	2,870	2,080	1,980	2,730	5,810	1,910	1,940	1,450	1,280
16	2,500	2,530	3,610	2,950	2,090	1,980	2,520	6,100	1,930	2,200	1,440	1,240
17	2,120	2,520	4,640	2,620	2,070	2,540	2,480	5,990	2,010	2,450	1,460	1,250
18	2,070	2,520	7,380	2,600	1,980	3,390	2,650	5,370	2,370	2,380	1,380	1,230
19	2,070	2,400	7,840	2,570	1,900	3,220	3,520	4,790	2,240	2,080	1,400	1,150
20	2,080	2,500	7,080	2,930	1,910	2,770	3,980	3,780	2,640	2,210	1,350	1,200
21	2,070	2,120	7,500	2,920	2,090	2,770	3,630	3,440	3,210	2,210	1,380	1,140
22	2,070	2,480	7,790	2,520	2,160	2,740	3,570	3,440	3,670	2,050	1,390	1,020
23	2,060	2,470	7,730	2,220	2,150	2,750	3,620	3,430	3,050	1,860	1,380	1,070
24	2,030	2,510	6,440	2,220	2,240	2,740	4,260	3,440	2,610	1,890	1,380	1,130
25	2,050	2,500	3,710	2,230	2,230	2,770	4,630	3,450	2,170	1,890	1,380	1,160
26	2,060	2,500	5,340	2,530	2,290	2,540	4,280	4,100	2,230	1,870	1,560	1,230
27	1,810	2,520	5,540	2,700	2,160	2,400	4,320	4,480	2,250	1,830	1,450	1,280
28	2,040	2,530	4,840	2,900	2,060	2,160	4,030	4,600	2,250	1,740	1,500	1,280
29	2,050	2,470	4,530	3,010	-------	2,000	3,910	4,730	2,270	1,690	1,400	1,180
30	2,020	2,420	4,000	2,980	-------	1,990	3,940	4,240	2,250	1,450	1,300	1,300
31	1,890	-------	3,240	3,110	-------	2,280	-------	3,750	-------	1,350	1,240	-------
TOTAL	71,970	74,050	127,940	84,810	67,620	76,170	92,030	153,570	70,930	61,720	44,770	39,410
MEAN	2,322	2,468	4,127	2,736	2,415	2,457	3,068	4,954	2,363	1,991	1,444	1,314
MAX	2,750	2,610	7,840	3,110	3,170	3,390	4,630	8,320	3,670	2,450	1,660	1,970
MIN	1,810	2,020	1,520	2,220	1,900	1,980	1,970	3,430	1,340	1,350	1,240	1,020

CAL YR 1973 TOTAL 1,371,120 MEAN 3,756 MAX 18,700 MIN 1,330
WTR YR 1974 TOTAL 964,960 MEAN 2,644 MAX 8,320 MIN 1,020

01021000 St. Croix River at Baring, Maine

(International gaging station)

LOCATION.--Lat 45°08'12", long 67°19'05", Washington County, on right bank at site of destroyed international highway bridge at Baring.

DRAINAGE AREA.--1,370 mi² (3,548 km²).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 66.231 ft (20.187 m) above mean sea level.

AVERAGE DISCHARGE.--15 years (1960-74), 2,693 ft³/s (76.27 m³/s), 26.69 in/yr (678 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,450 ft³/s (268 m³/s) Dec. 22 (gage height, 9.55 ft or 2.911 m); minimum daily, 1,070 ft³/s (30.3 m³/s) Sept. 21.
Period of record: Maximum discharge, 23,500 ft³/s (666 m³/s) May 29, 1961 (gage height, 12.76 ft or 3.889 m); minimum daily, 262 ft³/s (7.42 m³/s) Oct. 20, 1964.

REMARKS.--Records excellent. Flow regulated by Chiputneticook Lakes, Grand, and other lakes (combined capacity about 25,000,000 ft³ or 708,000,000 m³). Final regulation is at Woodland 5.6 mi (9.0 km) upstream from gage. Records of chemical analyses and water temperatures for the water year 1974 are published in Part 2 of this report.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,640	2,270	2,570	3,050	3,250	2,030	2,350	6,400	3,380	2,180	1,350	1,320
2	2,610	2,940	2,420	2,940	3,270	2,070	2,120	8,200	3,550	2,160	1,360	1,300
3	2,530	2,780	2,270	2,910	3,080	2,030	2,000	8,800	3,520	2,140	1,360	1,420
4	2,580	2,790	2,110	2,680	2,590	2,060	2,340	8,700	3,120	2,020	1,380	1,740
5	2,600	2,580	1,640	2,640	2,600	2,470	2,460	8,100	2,540	1,900	1,470	1,880
6	2,600	2,650	2,250	2,650	2,890	2,620	3,030	6,100	2,280	2,180	1,590	1,700
7	2,600	2,630	2,310	2,640	2,700	2,530	2,910	5,300	2,030	2,110	1,550	1,380
8	2,590	2,570	2,170	2,580	2,560	2,620	2,840	5,100	1,990	2,040	1,440	1,380
9	2,570	2,450	2,290	2,710	2,500	2,780	2,670	4,800	1,870	2,090	1,390	1,380
10	2,580	2,310	3,190	2,580	2,520	2,810	2,840	4,530	1,440	1,860	1,350	1,380
11	2,520	2,500	3,220	2,270	2,500	2,730	2,780	4,530	1,210	1,550	1,350	1,380
12	2,430	2,380	3,370	2,510	2,510	2,710	2,720	4,470	1,390	1,500	1,470	1,380
13	2,400	2,530	3,230	2,890	2,130	2,590	2,740	4,810	2,170	1,890	1,450	1,370
14	2,410	2,500	3,040	2,840	2,010	2,390	2,820	5,400	2,310	2,140	1,450	1,280
15	2,400	2,480	3,540	2,760	2,070	2,040	3,090	6,100	1,940	2,150	1,380	1,270
16	2,420	2,580	4,040	2,960	1,980	1,820	3,130	6,400	1,830	2,130	1,330	1,270
17	2,120	2,650	4,990	2,760	1,960	3,470	2,750	6,200	1,920	2,130	1,350	1,250
18	1,870	2,610	8,700	2,870	1,950	3,940	2,740	5,900	2,710	2,160	1,360	1,260
19	1,930	2,450	8,460	2,400	1,830	3,690	3,380	5,200	2,670	2,190	1,350	1,210
20	1,980	2,540	7,940	2,770	1,940	2,960	4,740	4,320	2,580	2,210	1,350	1,160
21	1,990	2,300	7,730	2,700	2,070	2,860	3,880	3,570	3,120	2,190	1,350	1,070
22	1,990	2,500	8,920	2,690	2,280	2,860	3,840	3,600	3,890	2,020	1,350	1,250
23	1,990	2,430	8,250	2,150	2,700	2,830	3,960	3,670	3,240	1,860	1,340	1,200
24	1,990	2,450	6,750	2,160	2,490	3,080	4,520	3,870	2,620	1,840	1,350	1,100
25	1,990	2,470	4,920	2,200	2,410	3,020	5,100	3,920	2,310	1,820	1,430	1,180
26	1,990	2,470	5,490	2,500	2,210	2,880	4,960	4,620	2,340	1,800	1,500	1,280
27	1,790	2,450	5,920	2,780	2,200	2,630	4,470	5,070	2,190	1,790	1,530	1,270
28	1,980	2,470	5,360	2,880	2,050	2,250	4,190	5,030	2,190	1,670	1,430	1,240
29	1,970	2,630	4,830	3,030	------	2,010	4,090	5,030	2,180	1,610	1,340	1,320
30	1,990	2,630	4,460	3,090	------	2,000	4,630	4,890	2,170	1,500	1,340	1,330
31	1,870	------	3,600	3,080	------	2,170	------	3,990	------	1,330	1,330	------
TOTAL	69,920	75,990	139,980	83,670	67,320	80,950	99,760	166,620	72,700	60,260	43,370	39,960
MEAN	2,255	2,533	4,515	2,699	2,404	2,611	3,325	5,375	2,423	1,944	1,399	1,332
MAX	2,640	2,940	8,920	3,090	3,270	3,940	5,100	8,800	3,890	2,210	1,590	1,880
MIN	1,790	2,270	1,640	2,150	1,830	1,820	2,000	3,570	1,210	1,330	1,330	1,070

CAL YR 1973 TOTAL 1,445,540 MEAN 3,960 MAX 19,900 MIN 1,410
WTR YR 1974 TOTAL 1,000,500 MEAN 2,741 MAX 8,920 MIN 1,070

DENNYS RIVER BASIN

01021200 Dennys River at Dennysville, Maine

LOCATION.--Lat 44°54'03", long 67°14'56", Washington County, on right bank 100 ft (30 m) upstream from railroad bridge, 0.9 mi (1.4 km) upstream from Cathance Stream, and 1 mi (1.6 km) west of Dennysville.

DRAINAGE AREA.--92.4 mi² (239.3 km²).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 54.78 ft (16.700 m) above mean sea level.

AVERAGE DISCHARGE.--19 years, 190 ft³/s (5.38 m³/s), 27.92 in/yr (709 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,540 ft³/s (43.6 m³/s) Feb. 23 (Gage height, 5.61 ft or 1.710 m); minimum 21 ft³/s (0.59 m³/s) Oct. 17 (gage height, 0.56 ft or 0.171 m).

Period of record: Maximum discharge, 3,930 ft³/s (111 m³/s) Apr. 29, 1973 (gage height, 9.35 ft or 2.850 m); minimum, 8.4 ft³/s (0.24 m³/s) Oct. 1, 1957 (gage height, 0.28 ft or 0.085 m).

REMARKS.--Records excellent, except those for winter period, which are fair. Flow slightly regulated by dam at outlet of Meddybemps Lake 14 miles (22 km) upstream. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	127	338	368	295	194	264	287	149	163	72	67
2	38	593	282	355	255	208	204	362	177	160	70	63
3	37	492	252	305	220	186	177	260	186	155	67	66
4	38	418	242	280	195	222	239	214	133	150	65	63
5	39	400	248	255	175	415	424	202	142	147	66	77
6	48	352	430	230	165	418	559	175	150	160	63	63
7	47	308	496	220	155	282	376	161	125	165	60	55
8	42	272	391	210	145	256	275	194	117	161	59	51
9	38	262	312	205	140	190	216	206	186	182	58	48
10	40	254	569	200	140	158	182	180	139	206	56	47
11	43	244	648	200	135	130	177	168	123	194	56	46
12	42	234	659	195	130	110	194	160	131	165	55	44
13	35	230	514	195	130	98	214	374	131	153	55	43
14	26	232	394	195	130	93	196	694	128	144	58	44
15	24	234	596	195	125	89	377	702	125	141	60	43
16	23	300	634	190	125	88	541	565	122	165	100	41
17	22	400	708	190	125	558	352	439	125	139	133	40
18	24	365	1.040	190	125	751	272	260	529	133	98	39
19	31	290	850	190	125	302	250	175	496	155	58	38
20	36	262	559	190	175	166	208	152	292	202	47	38
21	39	244	472	190	305	139	171	149	210	182	42	41
22	41	234	923	225	282	194	169	141	163	131	40	198
23	38	234	722	252	1.310	192	216	153	144	100	39	175
24	37	236	502	264	814	326	250	278	125	87	40	120
25	38	246	284	256	418	406	254	315	116	80	41	88
26	38	254	462	244	282	234	254	300	168	75	40	82
27	39	240	457	272	184	166	230	256	194	71	39	77
28	39	246	457	385	173	142	210	224	180	70	40	67
29	37	432	460	275	------	135	206	177	166	74	46	114
30	39	421	442	308	------	130	216	152	163	77	51	290
31	71	------	391	300	------	147	------	141	------	74	51	------
TOTAL	1.170	9.036	15.734	7.529	6.918	7.111	7.853	8.214	5.335	4.261	1.823	2.208
MEAN	37.7	301	508	243	247	229	262	265	178	137	58.8	73.6
MAX	71	593	1.040	385	1.310	751	559	702	529	206	133	290
MIN	22	127	242	190	125	88	169	141	116	70	39	38
CFSM	.41	3.26	5.50	2.63	2.67	2.48	2.84	2.87	1.93	1.48	.64	.80
IN.	.47	3.64	6.33	3.03	2.79	2.86	3.16	3.31	2.15	1.71	.73	.89

CAL YR 1973 TOTAL 106.986 MEAN 293 MAX 3.350 MIN 22 CFSM 3.17 IN 43.07
WTR YR 1974 TOTAL 77.172 MEAN 211 MAX 1.310 MIN 22 CFSM 2.28 IN 31.07

PEAK DISCHARGE (BASE, 800 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	0930	4.62	1,080	2-23	1530	5.61	1,540
12-22	1000	4.41	994	3-17	2000	4.67	1,100

01021500 Machias River at Whitneyville, Maine

LOCATION.--Lat 44°43'23", long 67°31'15", Washington County, on right bank 800 ft (244 m) downstream from highway bridge at Whitneyville.

DRAINAGE AREA.--457 mi² (1,184 km²).

PERIOD OF RECORD.--October 1905 to September 1921, September 1929 to current year. Monthly discharge only for some periods published in WSP 1301. Records for October 1903 to September 1905, published in WSP 97, 124, 165, and 241, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 37.22 ft (11.345 m) above mean sea level. October 1, 1905 to Sept. 30, 1921, nonrecording gage on highway bridge at different datum.

AVERAGE DISCHARGE.--61 years, 933 ft³/s (26.42 m³/s), 27.73 in/yr (704 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,420 ft³/s (153 m³/s) Dec. 19 (gage height, 9.50 ft or 2.896 m); minimum, 132 ft³/s (3.74 m³/s) Aug. 23, 24 (gage height, 3.15 ft or 0.960 m).
Period of record: Maximum discharge, 14,800 ft³/s (419 m³/s) May 29, 1961 (gage height 16.92 ft or 5.157 m); minimum daily, 3.5 ft³/s (0.099 m³/s) Oct. 12, 1939, when flow was held back by cofferdam during reconstruction of highway bridge upstream.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flow by sawmill above station.

REVISIONS (WATER YEARS).--WSP 971: Drainage area. WSP 1231: 1907-15, 1916-21 (M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	318	932	1,170	1,850	1,730	794	1,150	1,800	1,200	538	525	299
2	332	2,620	904	1,700	1,380	894	1,260	2,350	1,280	500	455	250
3	314	2,760	685	1,400	994	834	1,140	2,100	1,190	455	398	219
4	335	2,170	694	1,250	828	819	1,410	1,770	1,070	424	358	285
5	357	1,540	748	1,350	740	1,340	2,170	1,760	975	402	334	470
6	431	1,160	1,400	970	660	1,940	3,070	1,600	899	421	324	441
7	433	928	2,040	900	505	1,550	2,830	1,450	833	534	296	361
8	392	790	1,690	840	570	1,400	2,120	1,800	768	527	271	306
9	384	716	1,350	800	540	1,150	1,670	2,340	717	470	252	270
10	328	651	2,190	770	505	970	1,450	2,020	679	513	238	244
11	342	584	2,990	750	485	870	1,320	1,770	666	553	222	225
12	348	532	3,090	730	470	790	1,370	1,660	650	471	210	212
13	341	507	2,670	720	455	710	1,430	2,160	644	411	199	200
14	310	500	2,260	700	440	645	1,360	3,050	598	369	192	200
15	288	496	2,580	690	425	590	1,830	2,720	547	348	184	190
16	277	541	2,940	690	415	581	2,740	2,240	504	492	179	179
17	267	1,090	3,110	680	406	1,320	2,440	1,860	505	731	171	161
18	257	992	5,000	600	400	3,240	1,990	1,650	1,430	600	169	155
19	251	803	5,280	580	413	2,370	1,830	1,500	2,250	514	158	145
20	246	673	4,100	675	567	1,400	1,620	1,370	1,810	967	152	141
21	252	588	3,340	675	1,350	1,100	1,400	1,250	1,350	1,250	146	145
22	270	541	3,740	950	1,300	1,150	1,310	1,170	1,360	1,340	140	871
23	277	528	3,890	1,100	4,510	1,220	1,470	1,200	876	838	135	871
24	270	532	3,250	1,180	4,560	1,670	1,770	1,720	750	663	136	526
25	260	553	2,750	1,240	2,770	2,560	1,990	2,160	664	542	152	377
26	258	613	2,770	1,050	1,630	1,840	1,920	2,270	657	465	180	342
27	267	600	2,950	1,060	1,060	1,360	1,810	2,070	714	416	176	341
28	279	595	2,760	1,640	840	1,110	1,680	1,830	692	381	168	307
29	268	1,160	2,620	1,930	------	900	1,630	1,580	613	419	183	513
30	271	1,480	2,390	1,970	------	885	1,600	1,390	567	629	240	1,840
31	477	------	2,250	1,680	------	820	------	1,260	------	599	325	------
TOTAL	9,700	28,175	79,601	33,000	31,018	38,840	52,750	56,870	27,156	17,482	7,268	11,086
MEAN	313	939	2,568	1,065	1,108	1,253	1,758	1,835	905	564	234	370
MAX	477	2,760	5,280	1,970	4,560	3,240	3,070	3,050	2,250	1,250	525	1,840
MIN	246	496	685	675	400	581	1,140	1,170	504	348	135	141
CFSM	.68	2.05	5.62	2.33	2.42	2.74	3.85	4.02	1.98	1.23	.51	.81
IN.	.79	2.29	6.48	2.69	2.52	3.16	4.29	4.63	2.21	1.42	.59	.90

CAL YR 1973 TOTAL 553,324 MEAN 1,516 MAX 11,200 MIN 246 CFSM 3.32 IN 45.04
WTR YR 1974 TOTAL 392,946 MEAN 1,077 MAX 5,280 MIN 135 CFSM 2.36 IN 31.99

PEAK DISCHARGE (BASE, 3,200 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-19	0300	9.50	5,420	3-18	1200	7.37	3,460
2-23	1500	9.37	5,280	4-06	1800	7.11	3,250

01022500 Narraguagus River at Cherryfield, Maine

LOCATION.--Lat 44°36'29", long 67°56'10", Washington County, on left bank 800 ft (244 m) upstream from railroad bridge at Cherryfield, and 0.7 mi (1.1 km) downstream from West Branch of Narraguagus River.

DRAINAGE AREA.--232 mi² (601 km²).

PERIOD OF RECORD.--February 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 44.2 ft (13.47 m) above mean sea level. Prior to July 1, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 491 ft³/s (13.91 m³/s), 28.74 in/yr (730 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,500 ft³/s (99.1 m³/s) Feb. 23 (gage height, 13.05 ft or 3.978 m); minimum, 76 ft³/s (2.15 m³/s) Aug. 22, 23 (gage height, 7.48 ft or 2.280 m).
Period of record: Maximum discharge, 10,400 ft³/s (295 m³/s) May 28, 1961 (gage height, 17.40 ft or 5.304 m); minimum, 20 ft³/s (0.57 m³/s) Sept. 22, 23, 1965.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1948 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	661	647	823	821	525	615	881	535	250	310	158
2	166	1,310	522	700	555	562	528	1,040	567	229	277	142
3	150	1,350	437	610	460	489	628	960	523	210	242	135
4	156	1,190	398	530	395	561	898	846	468	200	217	178
5	189	889	391	470	339	865	1,240	784	426	195	201	211
6	271	663	849	425	305	1,343	1,933	693	394	204	185	213
7	327	533	950	385	280	926	1,710	630	362	216	169	201
8	290	453	799	355	265	825	1,270	949	334	214	157	183
9	234	412	656	330	250	665	959	1,110	312	212	146	162
10	224	375	1,480	314	240	551	810	1,010	297	243	135	144
11	222	340	1,690	305	230	466	698	963	296	292	126	128
12	213	311	1,780	303	220	412	753	895	295	250	119	117
13	198	296	1,430	295	215	358	833	1,250	291	216	112	110
14	191	295	1,080	290	210	325	790	1,550	275	188	108	108
15	176	291	1,430	293	205	310	1,170	1,380	256	177	103	105
16	172	368	1,520	285	200	295	1,490	1,123	238	245	97	94
17	198	524	1,760	285	195	992	1,270	899	269	458	92	87
18	158	485	2,860	280	190	1,690	1,040	767	615	448	92	85
19	155	429	2,860	280	190	1,260	923	665	736	389	89	82
20	153	382	2,310	283	513	833	821	587	647	707	86	81
21	166	342	1,710	275	958	620	711	530	543	942	83	88
22	174	317	1,850	445	788	672	654	497	454	884	79	321
23	170	328	1,910	509	3,000	630	736	526	383	630	78	316
24	163	332	1,670	561	2,670	1,160	988	890	332	462	80	228
25	161	336	1,360	538	1,443	1,283	1,250	1,060	296	367	82	186
26	163	348	1,160	487	871	953	1,180	1,080	297	305	81	206
27	179	331	1,360	522	523	744	1,000	981	326	264	81	209
28	168	361	1,360	1,020	510	595	893	861	311	234	87	180
29	157	786	1,280	1,070	-------	501	829	730	282	276	120	371
30	216	798	1,110	1,033	-------	438	787	630	266	323	162	995
31	607	-------	950	885	-------	465	-------	563	-------	327	177	-------
TOTAL	6,319	15,833	41,569	15,271	17,238	22,009	29,454	27,321	11,626	10,557	4,173	5,824
MEAN	204	528	1,341	493	616	710	982	881	388	341	135	194
MAX	607	1,350	2,860	1,070	3,000	1,690	1,933	1,550	736	942	310	995
MIN	150	291	391	275	190	295	615	497	238	177	78	81
CFSM	.88	2.28	5.78	2.13	2.66	3.06	4.23	3.80	1.67	1.47	.58	.84
IN.	1.01	2.54	6.67	2.45	2.76	3.53	4.72	4.38	1.86	1.69	.67	.93

CAL YR 1973 TOTAL 273,928 MEAN 750 MAX 5,880 MIN 145 CFSM 3.23 IN 43.92
WTR YR 1974 TOTAL 207,194 MEAN 568 MAX 3,033 MIN 78 CFSM 2.45 IN 33.22

PEAK DISCHARGE (BASE, 2,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-19	1000	12.51	2,910	4-06	1500	11.54	2,000
2-23	1500	13.05	3,500				

01023000 West Branch Union River at Amherst, Maine

LOCATION.--Lat 44°50'25", long 68°22'22", Hancock County, on right bank 200 ft (61 m) upstream from site of old tannery dam, 0.6 mi (1.0 km) upstream from Indian Camp Brook, and 0.7 mi (1.1 km) northwest of Amherst.

DRAINAGE AREA.--148 mi^2 (383 km^2).

PERIOD OF RECORD.--July 1909 to September 1919, July 1929 to current year. Published as Union River at Amherst, October 1910 to September 1913.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map. July 1909 to September 1919, nonrecording gage at highway bridge 1 mi (1.6 km) downstream at different datum.

AVERAGE DISCHARGE.--55 years, 265 ft^3/s (7.505 m^3/s), 24.32 in/yr (618 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,920 ft^3/s (54.4 m^3/s) Dec. 18 (gage height 7.19 ft or 2.192 m); minimum discharge, 39 ft^3/s (1.10 m^3/s) Aug. 22, 23; Sept. 20, 21 (gage height, 3.38 ft or 1.030 m).

Period of record: Maximum discharge, 4,140 ft^3/s (117 m^3/s) Apr. 13, 1940 (gage height, 9.58 ft or 2.920 m); maximum gage height, 10.41 ft (3.173 m) Mar. 9, 1942 (ice jam); minimum discharge, 2.6 ft^3/s (0.074 m^3/s) July 28, 1965 (gage height, 2.75 ft or 0.838 m).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 801: 1935. WSP 821: Drainage area. WSP 1231: 1912-15, 1916-19 (M). WSP 1301: 1901-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	193	316	520	430	348	277	795	453	181	255	71
2	81	454	293	470	395	216	282	832	422	165	244	71
3	81	508	261	420	340	181	293	775	379	152	221	72
4	97	499	242	370	300	196	375	749	347	145	200	116
5	122	450	236	320	260	292	602	713	315	136	187	126
6	151	403	341	290	230	359	841	644	286	158	162	140
7	159	355	385	260	210	381	745	595	252	170	141	142
8	157	312	390	245	190	397	660	677	226	198	126	131
9	145	280	372	230	180	345	592	675	206	196	113	116
10	136	254	549	225	170	293	535	653	190	206	101	103
11	125	227	605	220	160	246	469	677	180	186	92	92
12	114	207	668	220	150	212	435	649	179	161	84	82
13	107	192	598	215	145	180	421	872	170	142	77	74
14	103	185	552	210	140	160	407	885	157	125	71	72
15	98	181	686	210	135	150	577	812	144	150	68	64
16	93	234	700	205	130	144	700	758	132	298	62	57
17	88	299	967	205	130	722	678	695	224	362	57	51
18	84	320	1,700	205	125	708	648	645	448	367	54	47
19	80	308	1,440	200	125	607	624	605	513	476	51	42
20	78	283	1,290	200	260	496	583	561	506	791	48	40
21	82	254	1,330	200	367	413	541	514	477	650	45	41
22	79	233	1,700	320	346	388	524	475	434	554	41	59
23	79	224	1,510	350	1,320	316	582	478	379	472	39	56
24	80	217	1,340	335	1,160	395	867	588	322	395	43	59
25	80	226	1,200	315	946	451	844	646	272	341	47	62
26	79	232	1,010	320	659	394	810	673	262	290	46	77
27	78	227	922	360	493	346	783	655	246	245	47	75
28	73	236	808	470	396	303	748	624	231	213	53	75
29	70	300	706	505	------	266	723	575	214	232	58	250
30	86	317	643	490	------	236	725	529	198	238	70	420
31	147	------	590	460	------	243	------	484	------	252	73	------
TOTAL	3,120	8,610	24,348	9,565	9,892	10,384	17,891	20,513	8,764	8,637	2,976	2,885
MEAN	101	287	785	309	353	335	596	662	292	279	96.0	96.2
MAX	159	508	1,700	520	1,320	722	867	885	513	791	255	420
MIN	70	181	236	200	125	144	277	475	132	125	39	40
CFSM	.68	1.94	5.30	2.09	2.39	2.26	4.03	4.47	1.97	1.89	.65	.65
IN.	.78	2.16	6.12	2.40	2.49	2.61	4.50	5.15	2.20	2.17	.75	.73

CAL YR 1973 TOTAL 165,643 MEAN 454 MAX 2,000 MIN 70 CFSM 3.07 IN 41.63
WTR YR 1974 TOTAL 127,585 MEAN 350 MAX 1,700 MIN 39 CFSM 2.36 IN 32.07

PEAK DISCHARGE (BASE, 1,000 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	0200	7.19	1,920	2-23	1400	6.52	1,440
12-22	0500	6.98	1,760	3-17	1300	6.06	1,140

01024200 Garland Brook near Mariaville, Maine

LOCATION.--Lat 44°43'17", long 68°24'40", Hancock County, on left bank 22 ft (6.7 m) upstream from State Highway 181, 1.2 mi (1.9 km) upstream from mouth, and 1.5 mi (2.4 km) north of Mariaville.

DRAINAGE AREA.--9.80 mi^2 (25.38 km^2).

PERIOD OF RECORD.--August 1964 to current year.

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 125 ft (38 m), from topographic map.

AVERAGE DISCHARGE.--10 years, 21.5 ft^3/s (0.609 m^3/s), 29.79 in/yr (757 mm/yr).

EXTREMES.--Current year: Maximum discharge, 604 ft^3/s (17.1 m^3/s) Dec. 17 (gage height, 9.69 ft or 2.954 m); minimum, 1.3 ft^3/s (0.037 m^3/s) Aug 23, 24 (gage height, 2.65 ft or 0.808 m).
Period of record: Maximum discharge, 1,230 ft^3/s (34.8 m^3/s) Dec. 27, 1969 (gage height, 13.47 ft or 4.106 m); minimum, 0.24 ft^3/s (0.007 m^3/s) Sept. 22-25, 1965.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	36	20	32	35	20	37	74	25	8.1	5.2	3.9
2	3.3	81	16	26	23	25	31	61	25	7.0	4.0	2.8
3	3.7	47	14	22	16	20	36	44	20	6.0	3.3	3.0
4	7.5	31	14	18	12	29	59	42	16	5.6	3.2	19
5	12	22	15	15	9.6	60	103	38	14	6.8	3.5	12
6	13	18	57	13	8.4	53	111	32	13	12	3.0	6.2
7	8.1	16	41	11	8.1	44	55	32	11	8.3	2.6	4.5
8	6.4	14	26	10	7.6	40	43	60	9.6	6.4	2.4	5.1
9	5.8	14	23	9.4	7.6	24	30	44	8.9	7.5	2.2	4.4
10	6.1	13	117	8.8	7.4	21	27	38	10	16	2.2	3.7
11	6.7	11	74	8.4	7.2	18	26	51	15	13	2.1	3.5
12	6.0	11	72	8.1	7.1	15	31	40	19	8.2	2.1	3.1
13	5.6	10	43	7.9	7.0	12	36	122	12	6.2	2.1	2.8
14	5.0	10	36	7.7	7.0	11	37	77	9.0	5.0	1.8	2.6
15	4.6	10	96	7.5	6.9	11	105	50	7.7	7.5	1.7	2.4
16	4.0	24	82	7.3	6.8	11	86	40	6.9	16	1.7	2.2
17	4.0	26	181	7.2	6.8	227	54	34	56	8.3	1.7	2.0
18	4.0	18	335	7.2	6.7	77	51	30	88	5.7	1.7	1.6
19	4.1	15	93	7.1	6.7	33	44	25	63	32	1.6	1.5
20	3.6	14	58	7.1	32	25	37	24	33	49	1.6	5.0
21	4.9	12	84	7.1	34	19	36	21	24	20	1.6	9.5
22	5.1	11	158	20	39	20	41	19	17	11	1.4	20
23	4.8	12	71	25	167	19	58	38	13	8.1	1.3	12
24	4.4	12	44	30	68	72	154	77	11	5.3	1.6	8.5
25	4.0	14	33	24	39	67	99	64	9.0	5.3	2.1	6.8
26	3.9	15	44	21	27	35	75	50	14	4.5	1.8	7.2
27	3.9	13	52	33	21	26	63	37	17	3.9	1.6	7.2
28	4.0	18	48	59	19	20	53	31	13	3.7	1.9	6.8
29	3.7	42	45	61	------	18	49	25	9.7	6.8	3.5	14
30	20	27	43	49	------	16	47	22	9.0	6.8	8.1	36
31	53	------	38	37	------	25	------	19	------	6.3	6.6	------
TOTAL	228.5	617	2,053	606.8	643.1	1,113	1,714	1,362	598.8	317.3	81.2	219.3
MEAN	7.37	20.6	66.2	19.6	23.0	35.9	57.1	43.9	20.0	10.2	2.62	7.31
MAX	53	81	335	61	167	227	154	122	88	49	8.1	36
MIN	3.3	10	14	7.1	6.7	11	26	19	6.9	3.7	1.3	1.5
CFSM	.75	2.10	6.76	2.00	2.35	3.66	5.83	4.48	2.04	1.04	.27	.75
IN.	.87	2.34	7.79	2.30	2.44	4.22	6.51	5.17	2.27	1.20	.31	.83

CAL YR 1973	TOTAL 12,147.3	MEAN 33.3	MAX 363	MIN 2.4	CFSM 3.40	IN 46.11
WTR YR 1974	TOTAL 9,554.0	MEAN 26.2	MAX 335	MIN 1.3	CFSM 2.67	IN 36.27

PEAK DISCHARGE (BASE, 150 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	2345	9.69	604	4-05	2115	6.52	212
12-22	0115	6.54	214	4-24	0830	6.24	185
2-23	0300	6.58	218	5-13	0930	6.13	175
3-17	1200	8.07	383				

01029500 East Branch Penobscot River at Grindstone, Maine

LOCATION.--45°43'49", long 68°35'22", Penobscot County, on left bank 500 ft (152 m) downstream from Bangor & Aroostook Railroad bridge, 0.5 mi (0.8 km) south of Grindstone, and 9.5 mi (15.3 km) upstream from confluence with West Branch Penobscot River.

DRAINAGE AREA.--1,090 mi^2 (2,823 km^2), including 249 mi^2 (645 km^2) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--October 1902 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 294.74 ft (89.837 m) above mean sea level. Prior to June 30, 1929, nonrecording gage on railroad bridge at same datum.

AVERAGE DISCHARGE.--72 years, 1,924 ft^3/s (54.49 m^3/s), 23.97 in/yr (609 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 23,500 ft^3/s (666 m^3/s) Dec. 22 (gage height, 13.20 ft or 4.023 m); minimum daily, 508 ft^3/s (14.4 m^3/s) Sept. 25.

Period of record: Maximum discharge, 37,000 ft^3/s (1,050 m^3/s) Apr. 30, 1923 (gage height, 16.9 ft or 5.15 m), site then in use, present datum); minimum daily (1914-74), 77 ft^3/s (2.18 m^3/s) Nov. 19, 1924.

REMARKS.--Records excellent, except those for winter period, which are fair. Flow regulated by Chamberlain, Telos, Second and Grand Lakes, and Round Pond (see sta 01028500 and sta 01029000, page 57). Final regulation at Grand Lake Dam 35 mi (56 km) upstream.

REVISIONS.--WSP 501: Drainage area. WSP 1301: 1907-12, 1914-29 (M). WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,180	934	969	3,000	1,500	1,270	1,950	17,000	2,800	1,100	964	1,010
2	924	1,090	1,320	2,750	1,400	1,230	1,940	18,800	3,100	1,210	903	974
3	805	1,230	905	2,550	1,250	1,200	1,860	14,200	2,930	1,060	840	960
4	846	1,010	901	2,400	1,200	1,180	1,910	11,800	2,740	991	873	1,100
5	1,000	857	999	2,300	1,150	1,300	2,400	10,700	2,550	939	970	1,270
6	1,160	769	2,590	2,150	1,100	2,400	3,410	8,070	2,490	926	1,010	1,170
7	1,110	741	3,420	2,050	1,000	3,100	3,350	6,000	2,420	922	852	1,070
8	988	704	2,340	1,950	960	3,540	3,090	6,130	2,360	889	771	1,020
9	914	700	1,840	1,900	940	3,030	2,620	6,580	2,090	875	732	988
10	903	659	3,870	1,800	900	2,690	2,170	6,570	1,860	918	719	972
11	893	609	4,420	1,700	860	2,300	2,310	7,110	1,580	936	707	970
12	882	632	3,440	1,600	840	1,950	2,320	7,160	1,420	901	696	971
13	872	667	2,940	1,600	820	1,800	2,150	8,750	1,330	815	681	989
14	870	654	2,870	1,500	800	1,750	2,090	11,200	1,180	758	853	1,030
15	870	724	3,670	1,450	780	1,730	2,820	9,260	1,140	753	866	988
16	851	791	4,100	1,400	760	1,700	4,040	8,550	1,110	1,070	826	967
17	836	758	2,880	1,350	900	1,850	3,880	7,760	1,410	970	818	946
18	825	767	8,000	1,300	1,050	4,280	4,400	7,310	3,570	782	1,100	946
19	810	835	7,800	1,300	1,050	3,940	4,700	6,860	2,540	748	1,300	930
20	810	745	7,000	1,250	1,030	3,250	4,480	5,660	1,990	848	1,300	929
21	823	669	8,200	1,200	1,020	2,680	4,210	4,860	1,770	967	1,220	777
22	818	609	10,000	1,200	1,020	2,220	4,700	4,680	1,810	842	1,160	558
23	808	723	9,600	1,150	1,250	2,510	7,090	5,010	1,770	770	1,120	612
24	703	726	6,600	1,150	1,500	2,610	7,560	6,620	1,600	774	1,110	551
25	647	738	7,200	1,130	1,480	2,660	6,180	7,190	1,460	672	1,100	508
26	608	787	6,100	1,120	1,430	2,500	5,850	7,400	1,330	667	1,070	882
27	552	716	5,300	1,100	1,370	2,360	5,820	6,610	1,360	653	1,050	1,540
28	534	766	4,480	1,900	1,320	2,070	6,550	6,050	1,280	639	1,090	1,380
29	526	909	4,000	1,950	------	1,940	7,840	5,620	1,130	694	1,080	1,270
30	535	1,160	3,680	1,700	------	1,920	13,200	4,860	1,080	690	1,050	1,590
31	854	------	3,280	1,600	------	1,850	------	3,370	------	808	1,030	------
TOTAL	25,757	23,679	136,714	52,500	30,680	70,810	126,890	247,740	57,200	26,587	29,861	29,868
MEAN	831	789	4,410	1,694	1,096	2,284	4,230	7,992	1,907	858	963	996
MAX	1,180	1,230	10,000	3,000	1,500	4,280	13,200	18,800	3,570	1,210	1,300	1,590
MIN	526	609	901	1,100	760	1,180	1,860	3,370	1,080	639	681	508
MEAN*	645	659	5,287	1,226	624	2,085	5,347	8,452	1,891	732	530	361
CFSM*	.59	.60	4.85	1.12	.57	1.91	4.91	7.75	1.73	.67	.49	.33
IN. *	.68	.68	5.59	1.29	.60	2.20	5.48	8.94	1.93	.77	.56	.37

CAL YR 1973 TOTAL 1,076,972 MEAN 2,951 MAX 27,200 MIN 526 MEAN* 2,988 CFSM* 2.74 IN * 37.20
WTR YR 1974 TOTAL 858,286 MEAN 2,351 MAX 18,800 MIN 508 MEAN* 2,336 CFSM* 2.14 IN * 29.09

* Adjusted for change in contents in Chamberlain, Telos, Second, and Grand Lakes, and Round Pond.

01030000 Penobscot River near Mattawamkeag, Maine

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, on left bank 700 ft (213 m) downstream from Mattaseunk Dam and powerhouse, 1.3 mi (2.1 km) upstream from Mattaseunk Brook, and 4.5 mi (7.2 km) upstream from Mattawamkeag.

DRAINAGE AREA.--3,356 mi^2 (8,692 km^2), including 249 mi^2 (645 km^2) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 191.72 ft (58.436 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 5,718 ft^3/s (161.9 m^3/s), 23.14 in/yr (588 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 37,400 ft^3/s (1,060 m^3/s) Dec. 22 (gage height, 12.80 ft or 3.901 m, backwater from Mattawamkeag River); minimum daily, 2,700 ft^3/s (76.5 m^3/s) Sept. 26.
Period of record: Maximum discharge, 66,000 ft^3/s (1,870 m^3/s) Apr. 29, 1973 (gage height, 16.89 ft or 5.148 m, backwater from Mattawamkeag River); minimum daily, 1,430 ft^3/s (40.5 m^3/s) Aug. 17, 1941.

REMARKS.--Records good. Flow regulated by many reservoirs above station (see p. 57).

REVISIONS.--WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,700	5,300	4,800	8,000	5,800	5,600	5,800	31,000	14,500	6,000	4,400	3,700
2	4,700	5,400	4,500	7,000	5,600	5,600	5,800	33,000	15,000	4,500	4,300	3,600
3	4,800	5,600	4,100	5,400	4,900	5,400	5,800	35,000	13,000	3,600	4,400	4,100
4	4,800	4,700	4,600	6,000	5,000	5,600	6,200	33,000	8,000	3,200	4,400	4,400
5	5,100	4,600	4,800	6,400	4,500	6,000	6,800	31,000	6,400	4,500	4,700	4,900
6	5,400	3,900	6,000	6,600	4,200	6,600	7,600	30,000	5,400	5,200	4,100	4,800
7	4,800	4,000	6,800	6,200	4,100	6,600	8,000	27,000	6,200	5,000	4,400	5,000
8	5,200	4,400	5,000	5,200	4,000	7,000	7,400	28,000	6,200	4,900	4,500	4,700
9	4,600	4,200	4,600	5,200	4,200	6,600	6,200	28,000	6,400	5,000	4,300	4,600
10	4,600	4,300	6,800	4,800	4,200	6,400	5,800	30,000	5,800	5,200	4,400	4,400
11	4,500	4,200	8,000	4,400	4,100	6,000	5,600	30,000	4,800	5,000	4,500	4,300
12	4,200	4,200	6,600	4,800	3,700	5,400	6,400	28,000	5,000	4,800	4,300	4,200
13	4,700	4,100	6,000	5,000	3,300	5,000	6,000	29,000	4,800	4,500	4,300	4,500
14	5,400	3,900	7,200	4,600	4,500	5,200	5,400	30,000	4,800	4,700	4,500	4,800
15	5,100	4,000	7,400	5,000	4,300	5,800	6,600	28,000	5,000	5,000	4,500	4,800
16	4,400	4,100	7,600	4,700	4,300	5,400	7,800	27,000	5,000	5,600	4,300	4,600
17	3,900	4,100	8,200	5,200	4,200	6,200	8,000	27,000	6,000	6,000	4,600	4,200
18	4,800	4,000	17,000	4,500	4,300	7,200	8,600	26,000	7,600	3,900	4,500	4,000
19	4,600	3,800	13,000	4,700	4,400	7,000	9,200	25,200	6,800	3,700	4,800	4,300
20	4,300	3,900	12,000	5,000	4,300	6,000	8,400	23,500	6,000	3,800	4,800	5,600
21	4,100	3,900	21,000	5,200	4,500	6,400	8,600	21,800	6,400	4,200	4,800	7,000
22	4,200	4,100	35,000	5,200	4,700	6,200	9,800	18,300	6,400	4,500	4,800	4,000
23	4,200	4,600	28,000	5,800	5,000	6,400	12,000	18,800	6,200	4,600	4,800	3,100
24	4,300	5,000	20,000	5,600	5,200	6,600	14,000	20,700	6,000	4,800	4,800	3,200
25	4,200	4,100	17,000	5,400	5,000	6,600	13,000	21,000	5,600	4,600	4,700	3,000
26	4,300	4,200	15,000	5,800	4,900	6,600	12,000	21,000	5,200	4,000	4,500	2,700
27	4,200	4,000	14,000	5,400	5,000	6,200	11,500	20,000	6,000	4,600	4,500	2,800
28	4,000	4,200	12,000	6,200	5,000	6,000	12,000	18,000	5,400	4,500	4,600	3,900
29	4,200	4,500	10,500	7,000	------	5,800	13,000	17,000	5,200	4,200	4,700	4,100
30	4,100	4,800	11,000	6,600	------	5,800	18,000	17,000	5,600	4,200	4,700	4,400
31	4,700	------	9,600	5,400	------	5,800	------	15,000	------	4,400	4,000	------
TOTAL	141,100	130,100	338,100	172,300	127,200	189,000	261,300	788,300	200,700	142,700	139,900	127,700
MEAN	4,552	4,337	10,910	5,558	4,543	6,097	8,710	25,430	6,690	4,603	4,513	4,257
MAX	5,400	5,600	35,000	8,000	5,800	7,200	18,000	35,000	15,000	6,000	4,800	7,000
MIN	3,900	3,800	4,100	4,400	3,300	5,000	5,400	15,000	4,800	3,200	4,000	2,700
MEAN*	2,778	2,741	15,840	3,229	1,583	5,541	16,720	27,360	5,534	3,332	1,873	1,047
CFSM*	.83	.82	4.72	.96	.47	1.65	4.98	8.15	1.65	.99	.56	.31
IN. *	.95	.91	5.44	1.11	.49	1.90	5.56	9.40	1.84	1.14	.64	.35

CAL YR 1973 TOTAL 3,115,960 MEAN 8,537 MAX 62,600 MIN 3,500 MEAN* 8,831 CFSM* 2.63 IN * 35.71
WTR YR 1974 TOTAL 2,758,400 MEAN 7,557 MAX 35,000 MIN 2,700 MEAN* 7,353 CFSM* 2.19 IN * 29.73

* Adjusted for change in contents in reservoirs in East and West Branches of Penobscot River.

01030500 Mattawamkeag River near Mattawamkeag, Maine

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, on right bank at Gordon Lower Falls, 1.0 mi (1.6 km) upstream from Mattakeunk Stream, 3.7 mi (6.0 km) upstream from Mattawamkeag, and 4.1 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--1,418 mi^2 (3,673 km^2).

PERIOD OF RECORD.--October 1934 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 230 ft (70 m), from topographic map.

AVERAGE DISCHARGE.--40 years, 2,456 ft^3/s (69.6 m^3/s), 23.52 in/yr (597 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,800 ft^3/s (532 m^3/s) May 3 (gage height, 11.33 ft or 3.453 m); minimum, 201 ft^3/s (5.69 m^3/s) Sept. 21 (gage height, 0.42 ft or 0.128 m).
Period of record: Maximum discharge, 29,200 ft^3/s (827 m^3/s) Mar 23, 1936 (gage height, 15.34 ft or 4.676 m); minimum, 38 ft^3/s (1.08 m^3/s) Sept. 19, 1952.

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS.--WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	590	491	2,360	4,000	1,850	640	2,240	15,900	4,400	1,960	531	219
2	540	1,520	2,120	3,400	1,850	640	2,290	18,000	3,970	2,050	517	216
3	518	2,720	1,940	3,100	1,800	630	2,250	18,600	3,630	1,960	495	214
4	518	2,870	2,010	2,700	1,700	600	2,420	18,000	3,290	1,740	494	254
5	529	2,620	1,940	2,500	1,400	640	3,580	16,600	2,960	1,560	533	307
6	578	2,270	2,740	2,300	1,200	1,000	6,100	14,500	2,700	1,560	570	386
7	639	1,950	4,480	2,100	1,100	1,900	6,630	12,300	2,420	1,680	586	444
8	650	1,710	5,190	1,900	1,000	2,510	6,410	10,700	2,180	1,660	597	450
9	622	1,550	5,230	1,800	920	2,740	6,070	10,000	1,960	1,580	549	419
10	590	1,420	5,710	1,700	860	2,680	5,350	9,510	1,770	1,570	490	390
11	551	1,280	6,090	1,600	820	2,550	4,760	8,950	1,610	1,540	449	340
12	523	1,160	6,430	1,500	780	2,380	4,220	8,410	1,550	1,440	393	322
13	498	1,100	6,280	1,400	740	2,070	3,830	8,410	1,480	1,270	354	316
14	473	1,070	5,700	1,300	720	1,810	3,520	9,240	1,330	1,120	325	309
15	464	1,120	5,400	1,300	680	1,580	4,060	10,000	1,200	1,090	303	306
16	455	1,360	5,350	1,200	660	1,430	6,260	9,990	1,080	1,520	282	310
17	438	1,620	5,460	1,200	640	1,850	7,580	9,360	1,240	1,860	263	273
18	407	1,650	8,400	1,150	620	3,550	8,740	8,440	2,650	1,730	271	233
19	381	1,500	10,000	1,100	610	3,730	9,850	7,440	4,790	1,540	267	220
20	368	1,470	10,500	1,100	600	3,510	10,000	6,440	5,990	1,610	312	209
21	376	1,240	12,000	1,100	600	3,390	9,630	5,440	6,210	1,640	329	204
22	398	1,190	15,000	1,080	600	2,980	9,340	4,620	5,670	1,470	325	210
23	387	1,180	16,500	1,070	620	2,800	9,850	4,210	5,000	1,250	308	227
24	399	1,190	16,500	1,050	670	2,680	10,900	4,630	4,430	1,080	291	273
25	392	1,260	15,500	1,050	710	2,960	10,900	5,760	3,810	937	284	314
26	375	1,360	15,000	1,050	720	3,080	10,500	6,890	3,200	805	280	326
27	367	1,400	13,400	1,100	700	3,040	10,300	7,500	2,910	723	258	345
28	364	1,440	11,400	1,200	690	2,950	10,300	7,480	2,760	653	244	418
29	343	1,680	8,920	1,500	------	2,710	10,700	6,900	2,440	596	237	511
30	338	2,180	7,350	1,750	------	2,410	12,600	6,060	2,100	559	229	642
31	370	------	5,320	1,800	------	2,200	------	5,140	------	539	218	------
TOTAL	14,411	46,571	240,220	52,100	25,850	69,640	211,180	295,420	90,730	42,292	11,584	9,607
MEAN	465	1,552	7,749	1,681	923	2,246	7,039	9,530	3,024	1,364	374	320
MAX	650	2,870	16,500	4,000	1,850	3,730	12,600	18,600	6,210	2,050	597	642
MIN	338	491	1,940	1,050	600	600	2,240	4,210	1,080	539	218	204
CFSM	.33	1.09	5.46	1.19	.65	1.58	4.96	6.72	2.13	.96	.26	.23
IN.	.38	1.22	6.30	1.37	.68	1.83	5.54	7.75	2.38	1.11	.30	.25

CAL YR 1973 TOTAL 1,392,133 MEAN 3,814 MAX 23,600 MIN 338 CFSM 2.69 IN 36.52
WTR YR 1974 TOTAL 1,109,605 MEAN 3,040 MAX 18,600 MIN 204 CFSM 2.14 IN 29.11

01031500 Piscataquis River near Dover-Foxcroft, Maine

LOCATION.--Lat 45°10'31", long 69°18'55", Piscataquis County, on left bank 30 ft (9 m) downstream from Lows Bridge, 1.0 mi (1.6 km) upstream from Black Stream and 4.7 mi (7.6 km) upstream from Dover-Foxcroft.

DRAINAGE AREA.--297 mi² (769 km²).

PERIOD OF RECORD.--August 1902 to current year.

GAGE.--Water-stage recorder. Datum of gage is 358.1 ft (109.15 m) above mean sea level. Prior to July 20, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--72 years, 600 ft³/s (16.99 m³/s), 27.43 in/yr (697 mm/yr).

EXTREMES.--Current year: Maximum discharge, 19,200 ft³/s (544 m³/s) Dec. 22 (gage height, 16.09 ft or 4.904 m); minimum, 45 ft³/s (1.27 m³/s) Sept. 20 (gage height, 1.80 ft or 0.549 m).
Period of record: Maximum discharge, 22,800 ft³/s (646 m³/s) Nov. 4, 1966 (gage height, 17.89 ft or 5.453 m); minimum, 5 ft³/s (0.14 m³/s) Aug. 6, 1905, Nov. 22, 1908.

REMARKS.--Records excellent except those for winter period, which are fair. Low flow may be regulated by operation of mills above station. Records of chemical analyses for the water year 1974 are published in part 2 of this report.

REVISIONS (WATER YEARS).--WSP 279: 1902. WSP 1171: Drainage area. WSP 1201: 1903-17, 1918-30 (M), 1934-34. WSP 1301: 1909 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	1,180	680	850	450	270	611	5,830	800	392	460	87
2	125	1,680	476	780	340	250	765	4,970	765	410	343	72
3	142	1,250	440	720	280	235	700	3,020	635	325	269	74
4	620	905	435	660	240	235	1,060	2,860	542	297	234	193
5	1,260	732	482	595	210	310	1,820	2,720	482	330	261	325
6	1,420	611	1,910	545	190	558	2,820	1,960	410	605	238	234
7	935	520	1,780	505	180	863	2,350	1,580	361	498	183	168
8	648	465	1,070	455	165	1,430	1,790	1,620	321	352	139	131
9	509	430	877	415	155	1,120	1,350	1,440	297	384	102	104
10	415	384	5,170	390	150	807	1,010	1,330	277	605	87	89
11	370	338	3,320	410	145	565	965	1,890	330	520	81	83
12	330	317	2,030	395	140	425	928	1,720	317	366	77	83
13	313	317	1,290	375	135	350	950	4,060	273	289	75	79
14	297	325	1,250	360	135	295	905	3,620	227	234	70	77
15	285	356	5,890	335	130	275	1,610	2,280	245	220	65	72
16	277	764	3,830	320	130	245	2,460	1,800	241	285	60	68
17	249	905	3,870	305	130	2,400	2,100	1,490	1,580	249	60	60
18	238	623	8,000	285	130	4,740	2,650	1,280	3,270	196	134	58
19	213	498	5,400	270	125	2,660	2,820	1,050	1,760	293	220	52
20	209	435	3,120	260	140	1,700	2,280	898	1,120	509	134	46
21	249	366	5,500	250	160	1,140	2,220	786	835	384	97	48
22	245	338	9,000	255	175	855	3,310	726	765	289	79	93
23	220	330	5,600	310	210	765	5,690	1,410	623	238	74	134
24	209	348	3,200	470	325	740	6,130	3,040	504	196	75	99
25	206	415	2,160	395	600	740	3,840	2,920	415	168	102	81
26	203	520	1,540	340	460	635	3,220	2,460	374	147	123	77
27	199	440	1,340	400	340	565	2,820	1,840	635	142	111	75
28	187	482	1,140	520	300	480	3,260	1,450	575	139	97	74
29	177	930	1,000	890	------	415	3,960	1,110	425	297	91	75
30	264	884	965	700	------	395	5,200	928	370	330	87	144
31	1,960	------	910	570	------	415	------	842	------	476	97	------
TOTAL	13,113	18,088	83,675	14,330	6,270	26,878	71,594	64,930	19,774	10,165	4,325	3,055
MEAN	423	603	2,699	462	224	867	2,386	2,095	659	328	140	102
MAX	1,960	1,680	9,000	890	600	4,740	6,130	5,830	3,270	605	460	325
MIN	125	317	435	250	125	235	611	726	227	139	60	46
CFSM	1.42	2.03	9.09	1.56	.75	2.92	8.03	7.05	2.22	1.10	.47	.34
IN.	1.64	2.27	10.48	1.79	.79	3.37	8.97	8.13	2.48	1.27	.54	.38

CAL YR 1973 TOTAL 393,295 MEAN 1,078 MAX 9,000 MIN 123 CFSM 3.63 IN 49.26
WTR YR 1974 TOTAL 336,197 MEAN 921 MAX 9,000 MIN 46 CFSM 3.10 IN 42.11

PEAK DISCHARGE (BASE, 4,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1200	8.79	6,620	4-24	0700	9.22	7,220
12-15	1500	9.34	7,400	5-01	2200	8.90	6,770
12-18	0800	14.01	15,200	5-13	1800	7.90	5,430
12-22	0330	16.09	19,200	6-18	0100	7.05	4,380
3-18	0230	8.16	5,770				

01031600 Morrison Brook near Sebec Corners, Maine

LOCATION.--Lat 45°14'17", long 69°03'06", Piscataquis County, on left bank 60 ft (18 m) upstream from culvert in State Highway 16, 2.4 mi (3.9 km) east of Sebec Corners, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--4.37 mi² (11.32 km²).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 408.41 ft (124.483 m) above mean sea level.

AVERAGE DISCHARGE.--10 years (1965-74), 7.80 ft³/s (0.221 m³/s), 24.24 in/yr (616 mm/yr).

EXTREMES.--Current year: Maximum discharge, 95 ft³/s (2.69 m³/s) Dec. 17; minimum, 0.31 ft³/s (0.009 m³/s) Aug. 15, 17, 24.

Period of record: Maximum discharge, 575 ft³/s (16.3 m³/s) Nov. 3, 1966 (gage height, 8.95 ft or 2.728 m); minimum, 0.06 ft³/s (0.002 m³/s) Aug. 7, 8, 1965 (gage height, 1.91 ft or 0.582 m).

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	18	6.1	10	5.4	4.0	11	37	9.4	5.5	1.9	.61
2	1.2	18	6.0	9.4	4.6	3.8	10	28	8.5	5.1	1.6	.56
3	1.8	20	5.8	8.4	4.1	3.6	8.1	22	6.9	3.9	1.5	.67
4	9.3	10	5.9	7.6	3.7	3.5	19	18	5.7	3.1	1.4	2.2
5	13	6.7	7.1	6.8	3.4	7.0	20	16	4.9	3.3	1.4	2.2
6	12	5.8	20	6.2	3.1	17	20	12	4.2	6.2	1.3	1.5
7	6.2	5.2	20	5.6	2.9	35	20	11	3.8	5.4	1.2	1.2
8	5.1	5.0	18	5.6	2.8	22	17	12	3.7	3.9	1.0	.96
9	4.0	5.5	13	6.0	2.6	18	14	14	3.2	3.8	.91	.80
10	3.7	5.6	26	6.0	2.5	12	12	15	3.0	4.5	.91	.75
11	3.7	5.4	23	7.7	2.3	9.0	9.5	17	3.3	3.8	.71	.68
12	3.4	4.9	20	8.5	2.2	7.2	9.4	15	3.4	3.0	.67	.76
13	3.1	4.7	17	6.2	2.2	6.0	9.7	23	3.0	2.5	.68	.64
14	3.2	5.1	21	5.0	2.1	5.2	8.9	22	2.6	2.3	.59	.64
15	3.2	5.3	22	4.4	2.1	4.6	17	18	2.3	3.3	.46	.54
16	3.2	7.7	20	4.2	2.0	4.6	20	17	1.8	5.4	.40	.53
17	2.9	7.1	33	4.0	2.0	28	22	17	7.2	4.1	.39	.51
18	2.7	6.2	15	3.8	2.0	24	25	15	20	3.0	.73	.55
19	2.5	5.7	16	3.6	2.0	25	24	12	9.8	3.8	.62	.53
20	2.6	5.4	18	3.5	2.2	18	22	8.8	5.2	5.0	.61	.53
21	3.4	5.7	37	3.4	2.6	13	22	6.9	3.7	3.9	.52	.63
22	3.1	4.8	17	4.6	3.0	11	26	6.2	4.4	3.1	.51	.93
23	2.8	5.3	18	6.9	5.2	6.7	37	13	5.1	2.6	.47	.77
24	2.7	5.5	15	5.2	8.6	7.5	31	21	3.8	2.2	.51	.69
25	2.5	6.0	17	4.3	7.0	10	28	27	3.0	1.9	.62	.74
26	2.5	6.1	22	4.0	5.8	8.5	27	22	3.0	1.8	.65	1.1
27	2.5	5.6	22	7.1	4.9	5.4	29	19	18	1.6	.55	.95
28	2.6	6.2	17	18	4.3	6.1	33	17	10	1.7	.63	.93
29	2.5	10	14	11	------	5.5	31	15	5.3	1.8	.63	1.4
30	8.0	7.6	12	7.5	------	4.2	32	11	4.5	1.9	.64	2.8
31	19	------	11	6.2	------	5.2	------	9.5	------	1.9	.63	------
TOTAL	139.6	220.1	534.9	200.7	97.6	340.6	614.6	517.4	172.7	105.3	25.34	28.30
MEAN	4.50	7.34	17.3	6.47	3.49	11.0	20.5	16.7	5.76	3.40	.82	.94
MAX	19	20	37	18	8.6	35	37	37	20	6.2	1.9	2.8
MIN	1.2	4.7	5.8	3.4	2.0	3.5	8.1	6.2	1.8	1.6	.39	.51
CFSM	1.03	1.68	3.96	1.48	.80	2.52	4.69	3.82	1.32	.78	.19	.22
IN.	1.19	1.87	4.55	1.71	.83	2.90	5.23	4.40	1.47	.90	.22	.24

CAL YR 1973 TOTAL 4,484.86 MEAN 12.3 MAX 105 MIN .73 CFSM 2.81 IN 38.18
WTR YR 1974 TOTAL 2,997.14 MEAN 8.21 MAX 37 MIN .39 CFSM 1.88 IN 25.51

PEAK DISCHARGE (BASE, 70 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	2045	3.80	95	3-17	1230	3.58	75

PENOBSCOT RIVER BASIN

01033000 Sebec River at Sebec, Maine

LOCATION.--Lat 45°16'12", long 69°06'44", Piscataquis County, on right bank, 1,000 ft (305 m) downstream from highway bridge and dam at outlet of Sebec Lake at Sebec.

DRAINAGE AREA.--327 mi^2 (847 km^2).

PERIOD OF RECORD.--October 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 296.3 ft (90.31 m) above mean sea level. Prior to June 22, 1942, at site on opposite bank 60 ft (18 m) downstream at same datum.

AVERAGE DISCHARGE.--50 years, 629 ft^3/s (17.81 m^3/s), 26.12 in/yr (663 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 8,430 ft^3/s (239 m^3/s) Dec. 22 (gage height, 11.34 ft or 3.456 m); minimum daily, 129 ft^3/s (3.62 m^3/s) May 25.

Period of record: Maximum discharge, 11,400 ft^3/s (323 m^3/s) Mar. 20, 1936 (gage height, 14.46 ft or 4.407 m), from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of velocity-area studies; minimum, about 2 ft^3/s (0.057 m^3/s) Oct. 14-17, 1930 (gage height, 0.87 ft or 0.265 m), when gates in dam were closed.

REMARKS.--Records excellent. Flow regulated by Sebec Lake (see p.57) and other reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area, 1936 (M). WSP 1301: 1925.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	622	570	213	1.900	310	619	908	3.480	1.090	236	290	231
2	567	712	216	1.750	311	616	875	3.920	1.070	246	286	227
3	531	783	216	1.600	309	613	859	3.750	915	264	283	225
4	612	779	219	821	310	610	887	3.540	784	261	281	228
5	765	725	220	390	311	610	1.030	3.370	402	269	278	230
6	939	696	235	391	311	610	1.280	3.090	216	314	274	230
7	934	651	247	299	305	615	1.450	2.800	233	328	271	230
8	890	599	256	202	298	620	1.510	2.590	251	560	268	230
9	843	586	265	203	296	625	1.510	2.400	267	696	266	227
10	897	551	437	205	294	631	1.500	2.240	278	699	263	223
11	773	494	1.590	206	292	629	1.450	2.170	293	662	260	221
12	729	334	2.090	208	291	630	1.370	2.090	307	627	255	213
13	684	185	2.170	209	289	628	1.310	2.250	310	612	252	210
14	686	185	2.410	210	540	623	1.270	2.490	305	604	251	208
15	610	187	2.590	211	718	619	1.290	2.490	301	428	245	206
16	575	191	2.730	213	706	617	1.420	2.430	292	285	244	339
17	543	191	3.060	214	699	659	1.500	2.310	550	285	242	495
18	501	189	6.860	213	697	839	1.600	2.200	1.080	284	245	492
19	467	187	7.080	213	676	1.080	1.710	2.060	1.360	283	243	570
20	438	188	5.750	213	673	1.200	1.770	1.920	1.590	291	241	514
21	439	189	5.270	213	659	1.740	1.800	1.810	1.470	293	240	511
22	421	191	7.910	280	645	2.020	1.860	1.690	1.420	290	237	507
23	401	192	7.350	286	647	1.870	2.100	1.620	1.370	290	237	793
24	388	192	5.930	289	641	1.750	2.510	813	879	293	238	946
25	379	194	4.730	290	637	1.640	2.730	128	465	294	237	871
26	365	195	3.880	290	633	1.520	2.780	165	287	291	236	799
27	359	196	3.330	293	629	1.400	2.760	219	175	289	235	717
28	339	199	2.970	295	625	1.270	2.760	982	178	291	236	627
29	321	206	2.640	300	------	1.130	2.800	1.520	186	292	234	565
30	336	211	2.370	292	------	1.020	3.030	1.480	202	294	234	594
31	486	------	2.090	309	------	939	------	1.280	------	295	233	------
TOTAL	17.744	10.969	87.324	13.009	13.742	29.992	51.629	65.297	18.526	11.446	7.835	12.679
MEAN	572	365	2.817	420	491	967	1.721	2.106	618	369	253	423
MAX	939	783	7.910	1.900	718	2.020	3.030	3.920	1.590	699	290	946
MIN	321	185	213	202	289	610	859	128	175	236	233	206
MEAN*	582	701	2,942	398	332	855	2,177	2,062	596	336	114	77
CFSM*	1.78	2.14	9.00	1.22	1.02	2.61	6.66	6.31	1.82	1.03	.35	.24
IN *	2.05	2.39	10.38	1.41	1.06	3.01	7.43	7.28	2.03	1.19	.40	.26

CAL YR 1973 TOTAL 441.150 MEAN 1.209 MAX 7.910 MIN 112 MEAN* 1,196 CFSM* 3.66 IN * 49.64
WTR YR 1974 TOTAL 340.170 MEAN 932 MAX 7.910 MIN 128 MEAN* 936 CFSM* 2.86 IN * 38.89

*Adjusted for change in contents in Sebec Lake.

01033500 Pleasant River near Milo, Maine

LOCATION.--Lat 45°16'58", long 69°00'13", Piscataquis County, on left bank 2.5 mi (4.0 km) northeast of Milo, and 7.9 mi (12.7 km) upstream from mouth.

DRAINAGE AREA.--324 mi² (839 km²).

PERIOD OF RECORD.--June 1920 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 302 ft (92.0 m), from river-profile map. Prior to June 17, 1929, nonrecording gage at Snows Bridge, 2.2 mi (3.5 km) downstream at datum 32 ft (9.8 m) lower.

AVERAGE DISCHARGE.--54 years, 705 ft³/s (19.97 m³/s), 29.55 in/yr (751 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,500 ft³/s (524 m³/s) Dec. 22 (gage height, 11.62 ft or 3.541 m, from floodmarks); minimum, 70 ft³/s (1.98 m³/s) Aug. 17 (gage height, 1.56 ft or 0.475 m).
Period of record: Maximum discharge, 28,600 ft³/s (810 m³/s) Nov. 4, 1966 (gage height, 15.46 ft or 4.712 m); minimum, 15 ft³/s (0.42 m³/s) Aug. 17, 1944 (gage height, 1.21 ft or 0.369 m).

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Flow may be slightly regulated by small storage dams above station. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1921-22 (M), 1924-27 (M), 1929 (M). WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	1,060	724	974	500	290	577	7,260	1,010	434	441	139
2	261	1,420	596	860	450	265	574	6,780	1,010	432	340	126
3	258	1,220	609	790	400	250	576	3,650	873	381	276	125
4	565	952	490	720	365	250	732	2,600	763	349	270	215
5	956	765	522	650	330	300	1,360	2,310	683	341	284	321
6	1,160	644	2,120	600	305	520	2,120	1,800	618	624	283	275
7	906	560	2,350	550	280	800	1,970	1,580	549	527	239	228
8	703	514	1,540	500	265	1,200	1,590	1,790	502	421	208	198
9	577	481	1,160	460	250	1,050	1,260	1,650	464	433	186	177
10	524	452	3,470	440	235	680	1,040	1,470	431	498	162	163
11	496	414	3,490	430	225	520	969	1,850	426	417	110	152
12	455	386	2,240	420	215	420	878	1,790	418	339	99	145
13	423	384	1,570	400	205	370	868	4,200	381	289	92	143
14	414	401	1,330	380	200	330	824	4,530	341	252	86	136
15	406	437	3,390	360	200	300	1,130	2,770	323	329	80	127
16	382	602	3,230	340	195	290	1,710	2,200	317	714	74	120
17	358	627	4,000	325	190	2,270	1,680	1,790	685	515	73	114
18	340	531	9,800	310	190	3,790	2,100	1,550	2,090	373	265	112
19	322	454	6,000	295	190	2,720	2,340	1,320	1,530	366	405	106
20	315	434	3,600	285	205	1,750	2,050	1,130	1,090	478	268	102
21	350	414	6,400	280	230	1,180	1,910	990	860	405	214	106
22	347	382	11,000	310	270	988	2,620	909	807	340	171	154
23	326	385	7,500	390	390	853	4,290	1,160	764	293	153	181
24	312	420	5,200	520	860	779	4,580	2,300	638	258	151	160
25	299	481	3,100	430	960	871	3,190	2,890	533	230	206	141
26	291	527	2,200	400	640	815	2,570	2,810	473	210	188	190
27	284	485	1,630	470	470	690	2,370	2,110	594	199	164	253
28	271	491	1,460	560	350	687	2,660	1,660	535	198	154	233
29	257	770	1,260	900	------	658	3,360	1,360	466	221	146	223
30	342	853	1,100	700	------	557	5,950	1,170	429	246	145	390
31	1,180	------	1,010	580	------	499	------	1,040	------	361	147	------
TOTAL	14,360	17,946	94,091	15,629	9,565	26,942	59,848	72,419	20,603	11,473	6,080	5,255
MEAN	463	598	3,035	504	342	869	1,995	2,336	687	370	196	175
MAX	1,180	1,420	11,000	974	960	3,790	5,950	7,260	2,090	714	441	390
MIN	257	382	490	280	190	250	574	909	317	198	73	102
CFSM	1.43	1.85	9.37	1.56	1.06	2.68	6.16	7.21	2.12	1.14	.60	.54
IN.	1.65	2.06	10.80	1.79	1.10	3.09	6.87	8.31	2.37	1.32	.70	.60

CAL YR 1973 TOTAL 464,174 MEAN 1,272 MAX 13,000 MIN 140 CFSM 3.93 IN 53.29
WTR YR 1974 TOTAL 354,211 MEAN 970 MAX 11,000 MIN 73 CFSM 2.99 IN 40.67

PEAK DISCHARGE (BASE, 3,700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1800	5.65	4,480	4-24	0600	5.93	5,030
12-18	-	-	10,000	5-01	2200	7.56	8,570
12-22	-	11.62	18,500	5-13	2000	6.36	5,920
3-18	0500	5.74	4,650				

Note.--No gage-height record Dec. 17-26.

01034000 Piscataquis River at Medford, Maine

LOCATION.--Lat 45°15'40", long 68°52'07", Piscataquis County, on left bank 2.0 mi (3.2 km) southwest of Medford, and 3.3 mi (5.3 km) downstream from Pleasant River.

DRAINAGE AREA.--1,161 mi² (3,007 km²).

PERIOD OF RECORD.--June 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 248.68 ft (75.798 m) above mean sea level. Prior to Aug. 14, 1929, nonrecording gage at site 1.8 mi (2.9 km) downstream at different datum.

AVERAGE DISCHARGE.--50 years, 2,338 ft³/s (66.21 m³/s), 27.35 in/yr (695 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 45,900 ft³/s (1,300 m³/s) Dec. 22 (gage height, 13.48 ft or 4.109 m); minimum, 369 ft³/s (10.5 m³/s) Aug. 17, Sept. 16 (gage height, 1.88 ft or 0.573 m).
Period of record: Maximum discharge, 60,100 ft³/s (1,700 m³/s) Nov. 4, 1966 (gage height, 15.58 ft or 4.749 m); minimum, 99 ft³/s (2.80 m³/s) Oct. 28, 1947 (gage height, 1.28 ft or 0.390 m).
Maximum stage known, 20.8 ft (6.34 m) May 1, 1923, former site and datum.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Sebec Lake 15 mi (24 km) upstream (see p. 57) and other small reservoirs and powerplants above station.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area. WSP 1231: 1936. WSP 1301: 1925-29 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.230	3.980	2.220	3.400	1.800	1.250	2.360	17.600	3.240	1.280	1.280	533
2	1.130	4.830	1.760	3.150	1.600	1.200	2.680	20.400	3.200	1.330	1.160	507
3	1.080	4.470	1.510	2.900	1.350	1.200	2.590	14.600	2.870	1.230	965	498
4	1.510	3.520	1.500	2.700	1.200	1.200	3.150	10.600	2.400	1.100	888	588
5	3.280	2.820	1.520	1.700	1.100	1.300	5.130	10.400	2.060	1.040	853	748
6	4.200	2.420	4.160	1.600	1.000	1.700	8.070	8.430	1.560	1.540	853	934
7	3.600	2.120	6.210	1.500	940	2.880	7.930	7.080	1.360	1.820	820	797
8	2.800	1.920	4.140	1.400	900	3.780	6.500	7.120	1.250	1.500	774	681
9	2.300	1.810	2.950	1.350	850	3.890	5.160	6.640	1.180	1.610	656	615
10	2.050	1.720	8.030	1.300	830	3.030	3.990	5.880	1.120	1.840	584	569
11	1.920	1.580	11.200	1.250	800	2.500	4.060	6.340	1.110	1.920	520	532
12	1.780	1.420	8.470	1.200	780	2.220	3.820	6.690	1.170	1.620	469	505
13	1.650	1.200	6.190	1.200	760	1.800	3.700	9.430	1.140	1.410	441	488
14	1.590	1.150	5.680	1.150	860	1.550	3.550	14.400	1.040	1.280	424	465
15	1.550	1.210	11.900	1.100	1.200	1.400	4.420	10.000	960	1.260	409	413
16	1.430	1.700	13.900	1.100	1.200	1.300	7.160	7.860	934	1.530	394	373
17	1.330	2.340	10.800	1.100	1.170	5.250	6.890	6.670	1.210	1.370	376	551
18	1.230	1.950	32.600	1.100	1.150	11.700	7.770	5.850	6.670	1.110	438	667
19	1.160	1.570	35.600	1.100	1.130	9.260	8.590	5.120	5.590	1.080	766	673
20	1.150	1.430	25.300	1.050	1.130	6.260	7.640	4.510	4.370	1.580	707	704
21	1.180	1.240	19.600	1.050	1.200	4.510	6.920	4.010	3.530	1.570	638	676
22	1.190	1.170	39.300	1.200	1.300	4.270	8.140	3.670	3.210	1.280	565	735
23	1.160	1.180	37.000	1.600	1.450	3.920	13.200	3.930	3.050	1.070	530	821
24	1.130	1.140	23.000	1.950	1.900	3.790	16.400	7.520	2.630	953	556	1.210
25	1.080	1.360	12.000	1.800	2.400	3.710	13.600	7.630	1.730	863	566	1.160
26	1.040	1.620	8.000	1.650	2.000	3.460	11.200	7.360	1.450	803	554	1.140
27	1.010	1.570	6.500	1.800	1.600	3.050	9.930	5.540	1.750	747	561	1.120
28	972	1.510	5.500	2.200	1.300	2.670	10.200	4.480	1.880	708	535	1.030
29	920	2.160	4.800	3.000	------	2.350	10.900	4.580	1.500	718	455	956
30	1.050	2.640	4.200	2.500	------	2.140	14.500	4.110	1.300	812	482	1.140
31	3.720	------	3.750	2.100	------	2.090	------	3.720	------	966	546	------
TOTAL	52.422	60.750	359.290	53.200	34.900	100.630	220.150	242.170	66.464	38.940	19.785	21.829
MEAN	1.691	2.025	11.590	1.716	1.246	3.246	7.338	7.812	2.215	1.256	638	728
MAX	4.200	4.830	39.300	3.400	2.400	11.700	16.400	20.400	6.670	1.920	1.280	1.210
MIN	920	1.140	1.500	1.050	760	1.200	2.360	3.670	934	708	376	373
MEAN*	1,701	2,361	11,720	1,694	1,087	3,134	7,794	7,768	2,193	1,223	499	382
CFSM*	1.47	2.03	10.09	1.46	.94	2.70	6.71	6.69	1.89	1.05	.43	.33
IN. *	1.70	2.26	11.63	1.68	.97	3.11	7.49	7.71	2.11	1.21	.50	.37

CAL YR 1973 TOTAL 1.603.443 MEAN 4.393 MAX 39.300 MIN 703 MEAN* 4,380 CFSM* 3.77 IN * 51.20
WTR YR 1974 TOTAL 1.270.530 MEAN 3.481 MAX 39.300 MIN 373 MEAN* 3,485 CRSM* 3.00 IN * 40.74

PEAK DISCHARGE (BASE, 13,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	2400	7.42	13,100	4-24	1700	8.32	17,100
12-18	2400	12.73	41,400	5-02	0900	9.20	21,200
12-22	2000	13.48	45,900	5-14	0500	7.98	15,600

*Adjusted for change in contents in Sebec Lake.

01034500 Penobscot River at West Enfield, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°14'12", long 68°38'56", Penobscot County, on left bank 30 ft (9 M) downstream from highway bridge, 1,000 ft (305 m) downstream from Piscataquis River, and at West Enfield.

DRAINAGE AREA.--6,670 mi² (17,280 km²), including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--November 1901 to current year.

GAGE.--Water-stage recorder. Datum of gage is 125.94 ft (38.387 m) above mean sea level. Prior to Dec. 11, 1912, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--72 years (1902-74), 11,740 ft³/s (332.5 m³/s), 23.90 in/yr (607 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 108,000 ft³/s (3,060 m³/s) Dec. 23 (gage height, 19.68 ft or 5.998 m); minimum daily, 4,420 ft³/s (127 m³/s) Sept. 3.
Period of record: Maximum discharge, 153,000 ft³/s (4,330 m³/s) May 1, 1923 (gage height, 25.15 ft or 7.666 m), from rating curve extended above 88,000 ft³/s (2,490 m³/s); minimum, 1,630 ft³/s (46.2 m³/s) Oct. 29, 1905 (gage height, 1.0 ft or 0.30 m).

REMARKS.--Records excellent, except those for winter period, which are fair. Flow regulated by many reservoirs above station (see p. 57). Records of chemical analyses and water temperatures for the water year 1974 are published in Part 2 of this report.

COOPERATION.--Supplemental water-stage recorder graph furnished by Bangor Hydro-Electric Company.

REVISIONS (WATER YEARS).--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,640	11,000	11,400	19,000	11,800	9,200	11,200	64,500	23,100	9,950	6,780	5,740
2	7,050	13,900	10,500	16,600	10,500	9,900	12,400	76,000	22,500	10,200	6,630	4,960
3	7,130	15,800	9,560	15,200	9,400	9,800	12,200	73,200	21,500	8,700	6,460	4,470
4	7,660	15,100	8,900	14,000	8,700	9,700	13,000	67,600	19,900	7,730	6,640	5,490
5	9,580	12,900	9,270	12,500	8,200	10,000	17,100	65,000	15,000	7,080	6,330	5,740
6	11,400	11,800	13,200	11,600	7,800	11,500	26,100	59,400	12,800	8,210	6,590	6,720
7	11,200	10,600	21,800	10,900	7,600	13,800	28,800	52,500	9,750	9,770	6,120	6,620
8	9,350	9,610	21,000	10,400	7,400	15,000	25,900	50,300	10,200	9,550	6,000	6,460
9	9,420	9,520	17,600	9,800	7,400	15,000	23,300	50,300	9,670	9,010	6,350	6,300
10	8,440	8,880	22,400	9,400	7,800	14,000	19,500	47,600	9,680	9,410	5,880	6,200
11	8,800	8,760	31,800	9,200	7,800	12,000	17,600	47,400	8,980	9,320	5,820	5,950
12	8,470	8,190	28,200	9,000	7,400	10,000	17,200	47,400	7,840	8,990	6,040	5,820
13	7,140	7,960	22,100	8,900	6,600	9,000	16,500	49,200	8,030	8,490	5,470	5,400
14	7,470	7,700	20,700	9,100	6,500	8,200	15,600	59,100	7,620	7,680	5,420	5,650
15	8,140	7,490	24,900	9,400	8,100	8,000	16,500	54,100	7,440	7,860	5,460	5,990
16	7,840	8,270	31,700	9,600	8,000	8,000	26,700	48,600	7,640	8,130	5,470	5,980
17	6,930	9,910	28,100	10,000	7,800	10,000	29,400	45,800	7,740	9,350	5,460	6,110
18	6,390	9,810	55,800	10,400	7,800	30,100	31,500	42,800	16,400	9,400	5,990	6,040
19	6,870	9,110	76,800	10,800	8,000	29,100	33,800	40,200	22,100	7,890	6,000	5,340
20	6,770	8,350	60,000	10,900	7,900	21,400	32,900	37,200	20,100	7,650	6,440	5,710
21	6,850	8,080	53,700	11,300	7,500	15,900	30,600	33,800	18,100	7,990	6,310	7,840
22	6,620	7,610	90,300	12,000	7,600	14,700	30,900	29,100	17,300	7,890	6,330	8,230
23	6,710	7,730	100,000	12,800	8,400	16,600	39,400	27,500	16,800	7,910	5,850	6,500
24	6,790	7,930	73,500	12,700	9,300	16,000	46,400	33,800	15,300	7,520	5,830	6,330
25	6,790	7,830	52,300	12,400	9,800	15,300	43,300	38,300	13,500	7,230	5,990	5,600
26	6,660	8,420	41,500	12,000	10,000	15,300	39,900	40,100	11,600	6,990	6,180	4,960
27	6,510	8,770	35,000	11,800	9,700	14,300	37,900	37,000	10,900	6,110	5,940	4,630
28	6,610	8,430	30,200	11,800	9,400	13,000	37,800	33,700	12,300	6,100	5,770	4,500
29	6,170	9,570	27,000	12,900	------	12,500	39,800	31,800	11,000	6,350	6,040	6,290
30	6,730	11,200	24,000	13,300	------	11,800	48,000	29,300	10,000	6,220	5,780	7,300
31	8,980	------	21,700	12,500	------	11,100	------	26,700	------	6,070	5,990	------
TOTAL	239,110	290,230	1,074.9M	362,200	234,200	420,200	821,200	1,439.3M	404,790	250,750	187,360	178,870
MEAN	7,713	9,674	34,680	11,680	8,364	13,550	27,370	46,430	13,490	8,089	6,044	5,962
MAX	11,400	15,800	100,000	19,000	11,800	30,100	48,000	76,000	23,100	10,200	6,780	8,230
MIN	6,170	7,490	8,900	8,900	6,500	8,000	11,200	26,700	7,440	6,070	5,420	4,470
MEAN*	5,949	8,413	39,730	9,329	5,245	12,880	35,840	48,320	12,310	6,785	3,265	2,405
CFSM*	.89	1.26	5.96	1.40	.79	1.93	5.37	7.24	1.85	1.02	.49	.36
IN. *	1.03	1.41	6.87	1.61	.82	2.22	5.99	8.35	2.06	1.18	.56	.40

CAL YR 1973 TOTAL 6,985,430 MEAN 19,140 MAX 123,000 MIN 5,530 MEAN* 19,420 CFSM* 2.91 IN* 39.55
WTR YR 1974 TOTAL 5,903,140 MEAN 16,170 MAX 100,000 MIN 4,470 MEAN* 15,970 CFSM* 2.39 IN* 32.50

M Expressed in thousands.
* Adjusted for change in contents in East and West Branches of Penobscot River, also Sebec Lake in Piscataquis River basin.

01035000 Passadumkeag River at Lowell, Maine

LOCATION.--Lat 45°11'04", long 68°28'29", Penobscot County, on right bank at Lowell, 0.5 mi (0.8 km) downstream from dam and highway bridge and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--299 mi^3 (774 km^2).

PERIOD OF RECORD.--October 1915 to current year.

GAGE.--Water-stage recorder. Datum of gage is 151.3 ft (46.12 m) above mean sea level. Oct. 1, 1915 to Sept. 30, 1917, nonrecording gage at same site and datum. Oct. 1, 1917 to Nov. 30, 1921, nonrecording gage at site on left bank 400 ft (122 m) downstream from highway bridge at different datum.

AVERAGE DISCHARGE.--59 years, 501 ft^3/s (14.19 m^3/s), 22.75 in/yr (578 mm/yr).

EXTREMES.--Current year: Maximum discharge 2,080 ft^3/s (58.9 m^3/s) Dec. 22 (gage height, 5.05 ft or 1.539 m); maximum gage height, 6.03 ft (1.838 m) Jan. 18 (backwater from ice); minimum discharge, 86 ft^3/s (2.44 m^3/s) Sept. 21 (gage height, 0.86 ft or 0.262 m).

Period of record: Maximum discharge, 5,680 ft^3/s (161 m^3/s) May 2, 1923 (gage height, 9.40 ft or 2.865 m); minimum, about 5 ft^3/s (0.14 m^3/s) several times in July and August 1921 (gates in dam closed).

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS.--WSP 821: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	292	551	840	640	230	444	1,530	1,090	672	352	143
2	256	548	543	780	560	230	482	1,560	1,000	667	363	141
3	255	780	499	720	480	230	509	1,550	919	649	356	139
4	274	917	464	680	430	230	579	1,530	840	625	346	171
5	313	959	447	620	380	240	784	1,490	768	590	340	208
6	358	917	603	600	360	360	1,100	1,420	709	651	330	237
7	383	824	699	560	320	725	1,240	1,330	650	700	317	242
8	381	700	760	520	300	799	1,270	1,360	600	709	301	230
9	361	584	765	500	290	782	1,240	1,340	558	679	287	211
10	344	496	832	470	260	707	1,150	1,320	532	630	272	193
11	327	431	912	460	240	608	1,010	1,330	510	575	259	177
12	314	385	993	440	230	518	895	1,310	496	525	247	164
13	301	353	998	420	230	461	830	1,390	481	476	235	148
14	288	336	966	410	220	388	777	1,440	459	430	225	131
15	280	330	986	390	210	363	857	1,440	435	410	213	123
16	271	372	1,000	380	210	340	1,050	1,430	410	410	201	116
17	258	445	1,150	370	200	640	1,170	1,390	458	396	192	110
18	247	493	1,770	360	200	932	1,260	1,330	728	378	189	106
19	236	503	1,830	350	200	1,070	1,300	1,260	1,090	388	184	100
20	229	479	1,750	340	200	1,030	1,300	1,190	1,210	497	176	94
21	231	446	1,810	330	210	913	1,250	1,110	1,330	559	169	89
22	231	409	2,070	330	220	758	1,210	1,030	1,320	581	159	100
23	230	385	2,020	320	270	637	1,280	1,010	1,240	551	154	107
24	227	371	1,940	320	310	591	1,410	1,090	1,130	492	153	117
25	223	378	1,800	310	280	648	1,480	1,180	993	432	151	120
26	219	389	1,560	310	260	651	1,510	1,270	881	391	145	126
27	213	395	1,350	380	250	605	1,510	1,320	834	361	139	138
28	206	407	1,250	480	240	558	1,500	1,330	785	335	137	147
29	200	469	1,100	680	------	500	1,490	1,310	731	327	138	161
30	206	525	1,000	700	------	459	1,480	1,260	677	327	143	219
31	240	------	920	700	------	432	------	1,180	------	334	144	------
TOTAL	8,372	15,318	35,340	15,070	8,200	17,635	33,367	41,030	23,864	15,747	7,017	4,508
MEAN	270	511	1,140	486	293	569	1,112	1,324	795	508	226	150
MAX	383	959	2,070	840	640	1,070	1,510	1,560	1,330	709	363	242
MIN	200	292	447	310	200	230	444	1,010	410	327	137	89
CFSM	.90	1.71	3.81	1.63	.98	1.90	3.72	4.43	2.66	1.70	.76	.50
IN.	1.04	1.91	4.40	1.87	1.02	2.19	4.15	5.10	2.97	1.96	.87	.56

CAL YR 1973 TOTAL 309,274 MEAN 847 MAX 2,750 MIN 200 CFSM 2.83 IN 38.48
WTR YR 1974 TOTAL 225,468 MEAN 618 MAX 2,070 MIN 89 CFSM 2.07 IN 28.05

01036500 Kenduskeag Stream near Kenduskeag, Maine

LOCATION.--Lat 44°53'48", long 68°53'04", Penobscot County, on right bank 300 ft (91 m) upstream from highway bridge, 1.8 mi (2.9 km) downstream from Black Stream, and 2.9 mi (4.7 km) south of Kenduskeag.

DRAINAGE AREA.--178 mi^2 (461 km^2).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 91.94 ft (28.023 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 321 ft^3/s (9.091 m^3/s), 24.49 in/yr (622 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,560 ft^3/s (129 m^3/s) Dec. 22 (gage height, 11.33 ft or 3.453 m); minimum daily, 11 ft^3/s (0.31 m^3/s) Sept. 19-21.
Period of record: Maximum discharge, 6,400 ft^3/s (181 m^3/s) Sept. 12, 1954 (gage height, 14.83 ft or 4.520 m); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Sept. 30, 1948, Aug. 8, 1965.

REMARKS.--Records fair. An artificial cut has been made through a low divide between Souadabscook Stream and Black Stream which enters Kenduskeag Stream 1.8 mi (2.9 km) above station. During high stages of Souadabscook Stream part of its flow passes through the cut into Kenduskeag Stream; at low stages of Souadabscook Stream all flow continues down its own channel. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	1,290	474	460	600	357	535	1,480	365	126	47	37
2	36	1,620	353	420	500	446	674	1,770	363	144	44	32
3	38	1,410	280	380	400	442	590	1,240	311	99	39	29
4	155	975	269	340	310	394	916	989	254	74	35	114
5	606	702	268	310	240	663	1,270	1,000	208	68	33	206
6	662	535	814	280	190	960	1,960	820	172	337	31	168
7	499	420	1,050	260	160	1,050	1,660	702	141	376	29	112
8	351	363	717	240	137	1,270	1,200	859	118	226	27	68
9	262	299	516	230	121	957	864	847	111	204	26	46
10	187	263	1,460	210	110	559	577	694	97	274	25	32
11	145	223	1,440	200	105	367	560	818	117	296	26	26
12	142	192	1,360	190	100	260	514	804	129	180	26	24
13	126	186	997	180	100	200	620	1,330	115	120	23	22
14	115	195	768	170	98	155	684	1,710	91	87	26	19
15	110	213	1,560	160	96	117	1,470	1,190	73	73	25	17
16	98	406	1,760	155	96	105	2,500	873	60	116	22	15
17	85	667	1,490	150	96	1,760	1,850	679	95	140	22	13
18	78	510	2,500	150	96	4,100	1,480	563	525	110	26	12
19	72	382	4,000	140	100	2,240	1,250	461	492	99	27	11
20	68	303	2,300	140	115	1,170	964	378	332	189	28	11
21	90	235	1,100	135	210	665	778	314	218	175	24	11
22	104	210	1,700	150	320	459	769	274	148	152	21	17
23	97	222	2,500	200	1,280	422	1,060	381	108	126	19	19
24	90	246	1,400	230	1,760	444	1,900	1,120	82	105	19	19
25	83	294	620	270	1,360	951	2,080	1,410	67	78	23	16
26	77	378	700	230	933	729	2,050	1,390	68	61	28	16
27	73	321	782	250	620	529	1,850	1,030	175	51	26	16
28	67	320	497	360	409	375	1,580	787	271	45	29	17
29	62	586	620	880	-------	242	1,370	614	178	45	31	21
30	150	621	560	840	-------	173	1,360	492	126	42	37	82
31	1,490	-------	519	720	-------	196	-------	408	-------	46	41	-------
TOTAL	6,255	14,565	35,745	9,030	10,662	22,742	36,915	27,427	5,610	4,262	879	1,248
MEAN	202	486	1,153	291	381	734	1,231	885	187	137	28.4	41.6
MAX	1,490	1,620	4,000	880	1,760	4,100	2,500	1,770	525	376	47	206
MIN	36	186	269	135	96	105	514	274	60	42	19	11
CFSM	1.13	2.73	6.48	1.63	2.14	4.12	6.92	4.97	1.05	.77	.16	.23
IN.	1.31	3.04	7.47	1.89	2.23	4.75	7.71	5.73	1.17	.89	.18	.26

CAL YR 1973 TOTAL 182,962 MEAN 501 MAX 4,000 MIN 22 CFSM 2.81 IN 38.24
WTR YR 1974 TOTAL 175,360 MEAN 480 MAX 4,100 MIN 11 CFSM 2.70 IN 36.64

PEAK DISCHARGE (BASE, 1,600 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-02	1600	6.30	1,750	3-18	0900	11.27	4,520
12-10	2200	6.56	1,880	4-06	1500	6.96	2,080
12-22	-	11.33	4,560	4-16	1000	8.02	2,610
2-24	0200	6.70	1,950	4-24	2300	7.15	2,180

Reservoirs in Penobscot River basin

01027000 CHESUNCOOK, RIPOGENUS, AND CARIBOU LAKES AND MOOSE POND in West Branch Penobscot River basin are controlled by Ripogenus Dam, in T. 3, R. 11, Piscataquis County, Maine, 36 mi (58 km) upstream from Millinocket and 42 mi (68 km) northeast of Greenville, present dam completed in 1917, used for power; usable capacity of reservoir, 30,000,000,000 ft^3 (850,000,000 m^3). Records furnished by Great Northern Paper Co.

01027000 AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES in West Branch Penobscot River basin are controlled by North Twin Dam, Penobscot County, 3 mi (5 km) upstream from Millinocket, Maine, used for power; usable capacity of reservoir 15,000,000,000 ft^3 (420,000,000 m^3). Records furnished by Great Northern Paper Co.

01028500 CHAMBERLAIN AND TELOS LAKES AND ROUND POND in East Branch Penobscot River basin are controlled by dams in outlets of Chamberlain adn Telos Lakes, although regulation is at Telos Dam, in T. 6, R. 11, Piscataquis County, Maine. Telos Dam rebuilt during 1941, used for power; usable capacity, 5,050,000,000 ft^3 (142,700,000 m^3) between gage height 2.0 and 11.0 ft (0.61 m and 3.35 m). Records furnished by Bangor Hydro-Electric Co.

01029000 SECOND AND GRAND LAKES in East Branch Penobscot River basin are controlled by dam rebuilt in 1942 at outlet of Grand Lake, in T. 6, R. 8, Penobscot County, Maine, used for power; usable capacity, 1,785,000,000 ft^3 (50,550,000 m^3) between elevations 643.0 and 655.0 ft (195.99 m and 199.64 m). Records furnished by Bangor Hydro-Electric Co.

01032500 SEBEC LAKE on Sebec River, Piscataquis County, at Sebec, Maine, used for power; usable capacity 2,511,000,000 ft^3 (71,110,000 m^3) between elevations 316.1 and 325.1 ft (96.35 m and 99.09 m). Records furnished by Bangor Hydro-Electric Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SUNCOOK, RIPOGENUS CARIBOU, AMBAJEJUS, PEMADUMCOOK, NORTH TWIN SOUTH TWIN, AND ELBOW LAKES AND MOOSE POND*	CHAMBERLAIN, TELOS, SECOND, AND GRAND LAKES AND ROUND POND	SEBEC LAKE
SEPT. 30, 1973	43,763	3,472	577
OCT. 31	39,512	2,973	604
NOV. 30	35,710	2,637	1,474
DEC. 31	46,550	4,985	1,808
JAN. 31, 1974	41,564	3,733	1,749
FEB. 28	35,545	2,591	1,365
MAR. 31	34,590	2,058	1,066
APR. 30	52,462	4,953	2,247
MAY 31	56,408	6,185	2,130
JUNE 30	53,452	6,144	2,072
JULY 31	50,386	5,807	1,984
AUG. 31	44,476	4,648	1,611
SEPT. 30	37,800	3,003	713

*Includes monthend contents of following additional reservoirs in West Branch Penobscot River basin, used for power (total capacity approximately 12,000,000,000 ft^3 or 340,000,000 m^3); Penobscot, Seboomook Caucomgomoc, Loon, Shallow, Umbazooksus, Harrington, Sourdnahunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Reservoir, Dole, and Poland Ponds.

01038000 Sheepscot River at North Whitefield, Maine

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, on left bank at North Whitefield, 50 ft (15 m) upstream from highway bridge, and 0.6 mi (1.0 km) downstream from Pleasant Pond Brook.

DRAINAGE ARES.--148 mi² (383 km²).

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 101.1 ft (30.82 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 244 ft³/s (6.910 m³/s), 22.39 in/yr (569 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,420 ft³/s (182 m³/s) Dec. 18 (gage height, 12.52 ft or 3.816 m, from floodmarks); minimum, 36 ft³/s (1.02 m³/s) Aug. 23 (gage height, 2.06 ft or 0.628 m).
Period of record: Maximum discharge, 6,420 ft³/s (182 m³/s) Dec. 18, 1973 (gage height, 12.52 ft or 3.816 m, from floodmarks); minimum, 5.0 ft³/s (0.14 m³/s) Oct. 24, 1941 (gage height 1.70 ft or 0.518 m).

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flow by sawmill at North Whitefield. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	580	215	700	527	338	351	775	382	171	77	82
2	40	600	195	604	458	328	358	710	378	158	68	71
3	40	450	190	535	399	300	375	617	328	148	68	69
4	52	350	191	481	341	315	477	682	296	152	69	195
5	80	300	210	413	293	388	634	643	258	254	71	169
6	105	250	654	368	252	396	974	557	225	188	68	126
7	76	230	361	334	230	388	845	523	191	164	62	114
8	62	210	330	285	208	406	785	506	171	150	60	111
9	56	190	320	260	193	361	723	462	158	197	63	105
10	55	180	2,100	240	175	328	656	424	148	309	60	100
11	53	175	1,300	225	169	296	810	454	156	208	56	96
12	52	165	780	210	162	266	578	420	146	169	53	93
13	51	160	450	200	155	238	656	762	136	152	52	88
14	50	155	1,000	190	152	218	647	678	126	140	50	85
15	49	150	2,700	180	140	200	936	600	120	136	47	80
16	47	180	2,000	175	130	198	916	557	114	136	45	74
17	46	215	1,850	175	130	1,550	825	510	631	122	44	68
18	46	190	5,800	170	126	1,230	835	458	601	111	45	65
19	44	165	3,710	170	125	980	723	399	417	105	45	59
20	47	145	2,720	165	225	875	643	358	392	124	44	58
21	50	130	2,540	165	238	765	574	315	392	118	41	62
22	60	140	2,820	233	333	687	531	287	351	107	39	82
23	58	165	2,050	266	854	617	648	372	315	100	37	77
24	55	155	1,600	275	617	664	2,060	540	281	93	41	66
25	53	170	1,290	266	531	617	1,500	506	247	90	69	59
26	51	210	1,110	252	473	527	1,270	466	238	85	58	56
27	48	190	1,090	376	413	477	1,110	439	236	82	47	55
28	47	220	1,110	587	364	432	962	413	218	79	44	53
29	46	280	1,030	557	------	382	835	382	195	77	59	76
30	150	240	885	535	------	341	732	347	184	79	118	158
31	700	------	780	523	------	341	------	325	------	84	118	------
TOTAL	2,417	6,920	43,181	10,115	8,413	15,449	23,969	15,487	8,031	4,288	1,818	2,652
MEAN	78.0	231	1,393	326	300	498	799	500	268	138	58.6	88.4
MAX	700	600	5,800	700	854	1,550	2,060	775	631	309	118	195
MIN	40	130	190	165	125	198	351	287	114	77	37	53
CFSM	.53	1.56	9.41	2.20	2.03	3.36	5.40	3.38	1.81	.93	.40	.60
IN.	.61	1.74	10.85	2.54	2.11	3.88	6.02	3.89	2.02	1.08	.46	.67

CAL YR 1973 TOTAL 149,694 MEAN 410 MAX 5,800 MIN 34 CFSM 2.77 IN 37.63
WTR YR 1974 TOTAL 142,740 MEAN 391 MAX 5,800 MIN 37 CFSM 2.64 IN 35.88

PEAK DISCHARGE (BASE, 1,100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	-	12.52	6,420	3-17	1030	6.57	1,960
12-21	2300	8.40	3,180	4-24	0930	7.03	2,240

Note.--No gage-height record Dec. 8-20.

01040500 Moosehead Lake at East Outlet, Maine

LOCATION.--Lat 45°35'07", long 69°42'48", Piscataquis County, on left bank at wharf at east outlet of lake at Moosehead.

DRAINAGE AREA.--1,266 mi² (3,279 km²).

PERIOD OF RECORD.--March 1895 to current year.

GAGE.--Nonrecording gage read daily at 0700. Datum of gage is 1,011.48 ft (308.299 m) above mean sea level.

EXTREMES.--Current year: Maximum gage height observed, 17.80 ft (5.425 m) Dec. 22; minimum observed, 14.52 ft (4.426 m) Sept. 30.
Period of record: Maximum gage height, 18.0 ft (5.49 m) May 30, 1902; minimum, 10.0 ft (3.05 m) or lower, present datum Mar. 20-29, 1911.

REMARKS.--Lake is controlled by dams at East and West Outlets originally built prior to 1840. East Outlet partly rebuilt of concrete in 1947-48 with gate sills at elevation 7.0 ft (2.13 m). Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to elevation 10.0 ft (3.05 m) at a faster rate than formerly. Capacity, 23,735,000,000 ft³ (672,200,000 m³) between gage heights 10.0 and 17.5 ft (3.05 and 5.33 m). Water is used primarily for power, although some logs are driven each year. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1974, is given below:

October	50	February	55	June	80
November	50	March	50	July	80
December	50	April	50	August	70
January	55	May	300	September. . . .	60

COOPERATION.--Gage-height record furnished by Kennebec Water Power Co.

REVISIONS (WATER YEARS).--WSP 1111: 1946-47 (change in contents). WSP 1901: Drainage area.

Capacity table (gage height, in feet, and capacity, in millions of cubic feet)

10.0	0	13.0	9,397	16.0	18,908
11.0	3,110	14.0	12,537	17.0	22,121
12.0	6,237	15.0	15,713	18.0	25,355

GAGE HEIGHT, IN FEET, AT 0700, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.66	17.39	16.95	17.47	17.46	16.20	16.83	17.72	17.50	17.51	17.53	16.17
2	16.58	17.44	16.98	17.47	17.43	16.15	16.83	17.78	17.53	17.45	17.53	16.17
3	16.47	17.50	17.00	17.48	17.40	16.11	16.84	17.83	17.53	17.38	17.53	16.16
4	16.46	17.54	17.03	17.48	17.38	16.11	16.82	17.85	17.53	17.38	17.54	16.08
5	16.46	17.57	17.03	17.56	17.35	16.12	16.82	17.82	17.52	17.42	17.56	16.08
6	16.61	17.55	17.06	17.64	17.31	16.12	16.93	17.74	17.50	17.55	17.56	16.05
7	16.68	17.46	17.12	17.65	17.27	16.10	16.96	17.67	17.48	17.55	17.55	15.95
8	16.74	17.38	17.18	17.63	17.24	16.11	17.00	17.62	17.46	17.61	17.52	15.95
9	16.78	17.32	17.23	17.64	17.18	16.14	17.03	17.53	17.42	17.59	17.45	15.92
10	16.86	17.27	17.36	17.65	17.11	16.16	17.06	17.56	17.42	17.61	17.38	15.84
11	16.94	17.20	17.44	17.65	17.07	16.16	17.06	17.68	17.41	17.60	17.32	15.75
12	16.99	17.20	17.50	17.63	17.02	16.17	17.04	17.68	17.44	17.58	17.30	15.68
13	17.06	17.18	17.53	17.61	16.96	16.17	17.00	17.72	17.48	17.54	17.28	15.65
14	17.10	17.18	17.54	17.58	16.91	16.17	16.98	17.71	17.52	17.50	17.22	15.56
15	17.14	17.14	17.67	17.54	16.86	16.17	16.98	17.69	17.54	17.48	17.16	15.52
16	17.18	17.14	17.63	17.50	16.82	16.17	16.98	17.63	17.54	17.47	17.08	15.50
17	17.20	17.10	17.63	17.47	16.76	16.25	16.96	17.60	17.57	17.49	17.00	15.40
18	17.22	17.10	17.77	17.43	16.71	16.40	16.96	17.57	17.61	17.49	16.95	15.32
19	17.24	17.11	17.70	17.39	16.63	16.48	16.96	17.57	17.59	17.50	16.95	15.20
20	17.26	17.08	17.64	17.36	16.61	16.56	16.96	17.57	17.56	17.58	16.97	15.10
21	17.27	17.02	17.68	17.33	16.52	16.60	16.95	17.50	17.56	17.57	16.88	15.01
22	17.27	16.99	17.80	17.35	16.46	16.71	16.95	17.49	17.60	17.58	16.81	14.98
23	17.26	16.98	17.78	17.35	16.42	16.75	16.97	17.47	17.63	17.58	16.75	15.00
24	17.26	16.98	17.75	17.32	16.43	16.80	17.04	17.49	17.65	17.58	16.70	14.90
25	17.26	17.01	17.62	17.30	16.44	16.85	17.15	17.49	17.61	17.56	16.70	14.80
26	17.25	17.05	17.62	17.34	16.38	16.85	17.15	17.49	17.58	17.52	16.65	14.71
27	17.25	17.02	17.52	17.40	16.30	16.85	17.13	17.48	17.60	17.52	16.52	14.63
28	17.27	17.00	17.53	17.42	16.24	16.83	17.11	17.48	17.58	17.54	16.46	14.58
29	17.29	16.93	17.52	17.47		16.80	17.11	17.47	17.54	17.54	16.40	14.58
30	17.30	16.93	17.51	17.46	------	16.76	17.35	17.45	17.47	17.50	16.30	14.52
31	17.37	------	17.47	17.45	------	16.76	------	17.48	------	17.53	16.20	------
MAX	17.37	17.57	17.80	17.65	17.46	16.85	17.35	17.85	17.65	17.61	17.56	16.17
MIN	16.46	16.93	16.95	17.30	16.24	16.10	16.82	17.45	17.41	17.38	16.20	14.52
*	23,315	21,896	23,638	23,574	19,678	21,348	23,250	23,670	23,638	23,832	19,550	14,187
**	+2,128	-1,419	+1,742	-64	-3,896	+1,670	+1,902	+420	-32	+194	-4,282	-5,363

CAL YR: . . . . ** +1,324
WTR YR: . . . . ** -7,000

* Contents, in millions of cubic feet, at end of month.
** Change in contents, in millions of cubic feet.

01041000 Kennebec River at Moosehead, Maine

LOCATION.--Lat 45°35'08", long 69°43'05", Somerset County, on right bank 700 ft (213 m) downstream from dam at East Outlet of Moosehead Lake and 0.2 mi (0.3 km) northwest of Moosehead.

DRAINAGE AREA.--1,266 mi^2 (3,279 km^2).

PERIOD OF RECORD.--October 1919 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,015.53 ft (309.534 m) above mean sea level. Prior to Oct. 9, 1924, nonrecording gage on railroad bridge 300 ft (91 m) downstream at same datum.

AVERAGE DISCHARGE.--55 years, 1,934 ft^3/s (54.77 m^3/s), 20.75 in/yr (527 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 16,700 ft^3/s (473 m^3/s) May 3 (gage height, 9.74 ft or 2.969 m); minimum, 116 ft^3/s (3.29 m^3/s) Oct. 6-8 (gage height, 2.14 ft or 0.652 m).
Period of record: Maximum discharge, 16,700 ft^3/s (473 m^3/s) May 3, 1974 (gage height, 9.74 ft or 2.969 m); minimum, about 62 ft^3/s (1.76 m^3/s) Apr. 7-15, 1923.

REMARKS.--Records excellent. Some water diverted down west channel through gates in dam at West Outlet. Flow regulated by Moosehead Lake (see sta 01040500, p.59) and by Brassua Lake and First Roach Pond (see p. 69).

REVISIONS (WATER YEARS).--WSP 1301: 1928-50 (adjusted monthly runoff). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,270	628	392	3,580	3,430	2,580	1,870	12,100	4,100	2,160	1,030	1,030
2	3,850	633	392	3,580	3,460	2,540	2,620	15,900	4,120	3,460	1,620	1,030
3	4,330	634	392	3,000	3,440	2,520	3,000	16,300	4,800	2,510	2,280	2,970
4	3,510	634	1,490	883	3,410	2,540	3,250	16,100	3,980	843	830	2,010
5	1,040	1,650	2,660	546	3,390	2,580	1,490	15,700	3,830	730	2,560	995
6	455	2,130	1,370	1,660	3,370	2,570	415	15,600	3,830	495	1,450	2,600
7	116	3,330	392	3,500	3,350	1,770	420	15,500	3,800	498	2,640	2,700
8	231	3,470	392	3,400	3,330	2,250	508	15,300	3,780	2,880	4,220	1,630
9	285	2,110	392	2,810	3,300	2,830	1,690	11,700	2,690	3,660	3,420	2,470
10	710	2,100	399	2,810	3,280	2,850	2,470	9,440	1,850	3,240	2,150	3,060
11	1,040	1,080	399	2,800	3,260	2,330	2,480	9,520	1,200	3,230	1,270	2,570
12	1,040	602	399	2,800	3,240	2,220	2,460	9,510	1,010	3,210	1,950	2,260
13	1,040	1,130	410	2,790	3,220	2,420	2,440	11,000	691	2,250	2,780	3,430
14	1,050	2,300	422	2,780	3,190	2,400	2,430	11,600	1,660	1,510	2,960	2,390
15	1,330	2,990	3,810	2,760	3,160	2,400	2,440	11,600	2,050	2,690	3,440	1,500
16	1,460	2,660	5,120	2,760	3,140	2,390	2,960	11,500	1,270	1,950	3,720	2,910
17	1,460	492	5,380	2,750	3,120	1,020	3,000	11,600	1,750	897	2,790	3,760
18	1,550	491	6,270	2,740	3,800	403	2,740	9,640	2,360	1,620	1,100	3,720
19	2,200	1,320	7,150	2,730	4,260	406	2,920	8,590	2,360	1,160	800	3,620
20	2,200	2,660	7,540	2,710	4,220	406	2,920	8,570	2,000	961	2,020	3,560
21	2,210	2,230	9,060	3,110	4,170	420	2,920	6,960	1,950	593	2,590	3,530
22	2,200	930	13,000	3,410	4,120	1,470	2,920	6,750	3,060	1,900	2,950	1,920
23	2,200	930	14,600	3,420	1,750	1,250	3,030	6,760	2,210	1,200	2,920	2,470
24	2,370	930	14,300	3,420	1,370	709	3,350	7,470	3,340	1,860	1,870	3,450
25	2,460	935	11,600	2,370	3,350	1,770	4,900	8,120	3,600	2,960	462	3,380
26	2,580	1,600	9,710	1,650	4,060	2,850	6,090	8,340	2,460	1,720	3,150	3,330
27	1,330	1,380	7,500	1,660	3,130	3,060	6,050	7,050	3,530	716	3,460	3,280
28	626	2,490	5,920	1,660	2,610	3,060	6,040	6,180	3,870	1,450	3,430	1,890
29	626	2,270	5,920	2,910	------	3,050	6,380	6,080	3,260	2,170	3,950	1,340
30	628	1,160	5,860	3,480	------	2,270	6,500	4,730	1,090	2,180	4,520	3,190
31	626	------	4,590	3,460	------	1,260	------	4,070	------	1,840	2,190	------
TOTAL	50,023	47,899	147,231	83,939	92,930	62,594	92,703	319,280	81,501	58,543	76,522	77,995
MEAN	1,614	1,597	4,749	2,708	3,319	2,019	3,090	10,300	2,717	1,888	2,468	2,600
MAX	4,330	3,470	14,600	3,580	4,260	3,060	6,500	16,300	4,800	3,660	4,520	3,760
MIN	116	491	392	546	1,370	403	415	4,070	691	495	462	995
MEAN*	1,728	1,440	6,002	1,802	954	1,911	6,411	10,660	2,785	2,015	849	289
CFSM*	1.36	1.14	4.74	1.42	.75	1.51	5.06	8.42	2.20	1.59	.67	.23
IN. *	1.57	1.27	5.46	1.64	.79	1.74	5.64	9.71	2.46	1.83	.77	.25

CAL YR 1973 TOTAL 1,077,743 MEAN 2,953 MAX 14,600 MIN 116 MEAN* 3,367 CFSM* 2.66 IN * 36.10
WTR YR 1974 TOTAL 1,191,160 MEAN 3,263 MAX 16,300 MIN 116 MEAN* 3,092 CFSM* 2.44 IN * 33.13

*Adjusted for change in contents in Brassua and Moosehead Lakes, First Roach Pond, and diversion through West Outlet.

KENNEBEC RIVER BASIN

01042500 Kennebec River at The Forks, Maine

LOCATION.--Lat 45°20'25", long 69°57'48", Somerset County, on right bank at The Forks, 0.4 mi (0.6 km) upstream from highway bridge and 0.7 mi (1.1 km) upstream from Dead River.

DRAINAGE AREA.--1,589 mi² (4,116 km²).

PERIOD OF RECORD.--September 1901 to current year.

GAGE.--Water-stage recorder. Datum of gage is 569.03 ft (173.440 m) above mean sea level. Prior to June 21, 1912, nonrecording gage, and June 21, 1912, to Oct. 17, 1919, water-stage recorder and nonrecording gage at highway bridge 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--73 years, 2,588 ft³/s (73.29 m³/s), 22.12 in/yr (562 mm/yr).

EXTREMES.--Current year: Maximum discharge, 24,900 ft³/s (705 m³/s) Dec. 22 (gage height, 12.68 ft or 3.865 m); minimum daily, 320 ft³/s (9.06 m³/s) Nov. 4.
Period of record: Maximum discharge, about 24,900 ft³/s (705 m³/s) Dec. 22, 1973 (gage height, 12.68 ft or 3.865 m); minimum 85 ft³/s (2.41 m³/s) Sept. 3, 1953 (gage height, 1.02 ft or 0.311 m).

REMARKS.--Records excellent. Flow regulated by Moosehead Lake (see sta 01040500, p. 59), Brassua Lake, and Moxie, Indian, and First Roach Ponds (see p. 69). Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1902-4, 1906-8, 1912, 1914, 1919-20 (M), 1923 (M), 1926 (M), 1928-29 (M), 1936 (M), 1938 (M). WSP 1301: 1928-35 (adjusted monthly runoff). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,950	1,000	594	2,670	4,040	3,800	3,270	19,400	4,630	4,290	1,920	2,720
2	4,130	840	670	4,560	4,750	3,300	3,440	21,400	5,380	4,110	2,860	2,130
3	4,090	600	3,000	3,350	3,080	1,000	3,470	19,800	5,500	1,820	1,780	2,780
4	3,950	320	2,970	2,550	4,250	2,900	2,590	19,300	5,880	822	710	1,790
5	2,130	2,400	3,010	3,800	4,500	2,600	2,920	19,100	5,310	1,580	3,140	2,780
6	2,200	2,600	737	2,460	4,580	2,100	2,050	18,600	6,210	1,550	2,750	4,280
7	1,320	2,700	1,590	1,530	4,480	1,350	915	17,600	5,720	594	4,130	2,980
8	2,820	2,970	1,070	2,530	4,280	3,600	2,520	17,500	2,800	2,860	3,750	2,960
9	1,070	3,130	1,040	3,130	2,330	3,500	2,060	14,700	1,480	3,440	2,930	3,820
10	1,970	952	1,720	3,390	1,450	2,000	2,260	12,600	2,780	3,240	1,810	3,230
11	2,060	501	1,810	4,370	4,250	2,900	3,190	13,500	2,170	4,530	1,030	3,630
12	1,680	3,020	2,340	4,070	4,250	2,900	4,230	13,800	1,430	4,230	3,390	3,200
13	1,870	3,190	1,390	3,420	4,640	3,400	3,400	16,100	1,430	2,790	3,040	3,660
14	816	3,450	2,180	4,850	4,450	3,260	908	17,300	1,460	1,590	3,050	3,160
15	2,520	4,040	4,830	4,370	3,310	3,310	3,180	15,400	2,860	4,000	3,820	1,410
16	2,520	818	8,010	4,340	3,420	1,980	3,730	15,200	1,690	2,030	3,830	4,680
17	2,500	1,010	7,790	3,620	2,880	736	3,820	14,300	1,670	1,370	3,280	4,700
18	2,360	556	10,900	3,890	3,850	1,370	3,960	12,300	2,850	2,360	518	4,190
19	2,520	2,910	9,390	3,760	3,720	1,400	5,390	10,600	4,730	2,460	2,020	3,510
20	2,300	3,560	10,200	2,360	4,400	1,810	4,910	10,600	3,970	1,600	2,280	3,510
21	940	3,030	13,800	5,170	3,950	2,160	4,120	9,860	3,620	629	3,310	2,810
22	2,300	525	20,900	3,640	3,500	3,050	6,040	7,610	4,440	2,090	3,270	1,220
23	2,700	1,340	21,200	3,460	540	1,600	7,760	9,840	1,710	1,340	3,420	3,830
24	2,250	833	20,900	4,430	2,900	1,090	7,780	11,400	4,880	2,290	2,160	3,480
25	1,850	526	20,900	4,450	4,200	1,890	9,850	11,800	3,760	2,900	375	3,320
26	2,100	2,780	20,900	3,220	4,000	3,370	10,900	11,800	4,210	1,760	3,910	3,950
27	2,150	2,480	20,800	2,240	3,200	3,340	10,900	10,500	3,520	1,820	4,200	3,830
28	760	2,080	14,500	3,860	3,700	3,500	7,410	7,850	4,580	533	4,350	2,820
29	2,800	1,990	7,780	3,240	------	2,490	10,800	7,970	3,610	2,420	3,840	638
30	2,500	1,600	7,760	3,650	------	2,900	15,200	6,390	1,420	2,410	3,000	3,330
31	660	------	7,720	3,460	------	1,190	------	5,010	------	1,960	2,790	------
TOTAL	69,766	57,751	252,401	109,840	102,900	75,786	152,973	419,130	105,700	71,418	86,663	94,348
MEAN	2,251	1,925	8,142	3,543	3,675	2,445	5,099	13,520	3,523	2,304	2,796	3,145
MAX	4,130	4,040	21,200	5,170	4,750	3,800	15,200	21,400	6,210	4,530	4,350	4,700
MIN	660	320	594	1,530	540	736	908	5,010	1,420	533	375	638
MEAN*	2,247	1,856	9,425	2,401	1,255	2,348	8,735	13,540	3,498	2,310	1,087	555
CFSM*	1.41	1.17	5.93	1.51	.79	1.48	5.50	8.52	2.20	1.45	.68	.35
IN. *	1.63	1.30	6.84	1.74	.82	1.71	6.14	9.82	2.46	1.67	.79	.39

CAL YR 1973 TOTAL 1,534,552 MEAN 4,204 MAX 21,200 MIN 320 **MEAN*** 4,576 **CFSM*** 2.88 **IN *** 39.08
WTR YR 1974 TOTAL 1,598,676 MEAN 4,380 MAX 21,400 MIN 320 **MEAN*** 4,133 **CPSM*** 2.60 **IN *** 35.31

*Adjusted for change in contents in Brassua and Moosehead Lakes, and First Roach, Indian, and Moxie Ponds.

01043500 Dead River near Dead River, Maine

LOCATION.--Lat 45°13'48", long 70°11'58", Somerset County, on right bank at foot of Long Falls, in T. 3, R. 4, 0.3 mi (0.5 km) upstream from Black Brook, and 0.5 mi (0.8 km) downstream from Flagstaff Lake Dam.

DRAINAGE AREA.--520 mi² (1,347 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October to December 1939, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 1,037.32 ft (316.175 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 849 ft³/s (24.0 m³/s), 22.17 in/yr (563 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 12,000 ft³/s (340 m³/s) May 1 (gage height, 10.24 ft or 3.121 m); minimum daily, 38 ft³/s (1.08 m³/s) Nov. 3.

Period of record: Maximum discharge, 18,000 ft³/s (510 m³/s) Sept. 12, 1954 (gage height, 11.50 ft or 3.505 m); no flow part of July 31, 1949, when flow was completely shut off by cofferdam during construction of Flagstaff Lake Dam.

REMARKS.--Records good. Flow regulated by Flagstaff Lake (see sta 01043000 p. 69).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	45	593	1.440	409	2.300	1.140	11.700	1.210	836	364	1.270
2	55	41	594	1.410	412	2.300	1.110	11.400	1.200	1,080	361	1.250
3	44	38	990	915	414	2.280	1.070	7.510	1.210	1.200	361	749
4	50	39	1.230	330	753	2.270	775	4.880	1.220	1.180	361	380
5	488	39	1.220	1.150	1.450	2.270	100	4.370	1.220	615	361	246
6	1.300	198	492	2.300	1.440	2.260	93	2.060	1.160	253	436	246
7	1.140	236	45	1.830	1.430	990	86	754	1.150	357	825	246
8	1.170	267	67	1.350	1.430	193	87	1.560	1.110	894	912	246
9	1.280	325	178	1.350	1.420	187	605	1.990	1.110	1,160	906	245
10	1.210	325	1.100	756	1.410	185	919	2.000	1.110	1.230	946	244
11	1.190	324	1.960	338	1.400	526	922	2.000	1.120	1.210	1.210	243
12	1.170	329	2.020	340	1.690	731	923	2.000	1.110	1.170	664	242
13	1.160	318	1.540	339	1.950	985	924	7.180	1.100	1.130	346	242
14	1.170	497	1.620	589	2.150	1.120	928	7.340	593	1.070	344	242
15	1.160	651	5.590	835	2.140	1.620	969	5.400	135	1.010	341	242
16	1.150	658	5.100	831	2.130	1.860	973	4.580	139	962	461	242
17	1.140	660	3,990	838	2.120	1.000	1,250	2.780	1,440	923	1,280	242
18	1.140	677	3.910	827	2.110	92	1.730	2,170	3,290	890	1.340	242
19	1.130	658	2.330	819	2.100	92	1,940	2.350	3,190	872	761	242
20	1.120	658	1.340	813	2.090	94	1.970	2.000	2,720	921	743	242
21	1.120	880	4.820	806	2.080	95	2,020	1.390	1.670	925	61	243
22	1.100	1.140	9.880	788	2.070	1.590	2.470	1.180	1.090	928	566	244
23	1.100	1.500	9.320	496	747	2.580	3.020	2.360	1.070	937	934	242
24	1.090	1.800	4.760	292	1.420	2.580	3.190	6.690	642	907	927	368
25	1.080	1.800	3.050	717	2.370	1.180	6.220	6.420	401	976	917	519
26	1.080	1,050	1.750	895	2.350	372	5,920	4,230	413	1.240	1.110	516
27	1.070	587	617	901	2.340	539	3,580	3.920	643	1.230	1.450	513
28	1.060	587	1.100	743	2.320	816	3.040	3.250	873	1.230	1.420	513
29	1.060	593	1.500	405	-------	1.170	4.620	2.150	855	998	1.060	520
30	1.090	594	1.500	405	-------	1.170	9.770	1.330	802	856	826	515
31	352	-------	1.470	405	-------	1.150	-------	1.180	-------	552	907	-------
TOTAL	29.529	17.504	75.676	26.253	46.145	36.597	62.364	120.124	34.996	29.742	23.501	11.736
MEAN	953	583	2.441	847	1.648	1.181	2.079	3.875	1.167	959	758	391
MAX	1.300	1.800	9.880	2.300	2.370	2.580	9.770	11.700	3.290	1.240	1.450	1,270
MIN	44	38	45	292	409	92	86	754	135	253	61	242
MEAN*	721	853	2,562	638	297	1,040	3,797	3,783	1,167	809	164	253
CFSM*	1.39	1.64	4.93	1.23	.57	2.00	7.30	7.28	2.24	1.56	.32	.49
IN. *	1.60	1.83	5.68	1.42	.59	2.31	8.14	8.39	2.50	1.80	.36	.54

CAL YR 1973 TOTAL 410.225.1 MEAN 1.124 MAX 9.880 MIN 1.1 MEAN* 1,259 CFSM* 2.42 IN * 32.88
WTR YR 1974 TOTAL 514.167.0 MEAN 1.409 MAX 11.700 MIN 38 MEAN* 1,347 CFSM* 2.59 IN * 35.16

* Adjusted for change in contents in Flagstaff Lake.

01045000 Dead River at The Forks, Maine

LOCATION.--Lat 45°20'59", long 69°59'26", Somerset County, on left bank 1.5 mi (2.4 km) northwest of The Forks, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--872 mi² (2,258 km²).

PERIOD OF RECORD.--September 1901 to August 1907, March 1910 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 600.5 ft (183.03 m) above mean sea level. Prior to September 29, 1923, nonrecording gage at site 100 ft (30.m) downstream at same datum.

AVERAGE DISCHARGE.--69 years (1902-7, 1910-74), 1.443 ft³/s (40.87 m³/s), 22.47 in/yr (571 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 20,100 ft³/s (569 m³/s) May 1 (gage height, 8.92 ft or 2.719 m); minimum daily, 234 ft³/s (6.63 m³/s) Jan. 12.
Period of record: Maximum discharge, 28,700 ft³/s (813 m³/s) Mar. 20, 1936 (gage height, 10.54 ft or 3.213 m) from rating curve extended above 15,000 ft³/s (425 m³/s); minimum daily since September 1923, 61 ft³/s (1.73 m³/s) Dec. 23, 1968.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Flagstaff Lake (see sta 01043000, p. 69). Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).-- WSP 801: Drainage area. WSP 1231: 1913-15, 1916-17 (M), 1919-20 (M), 1922 (M). WSP 1301: 1904 (M), 1907, 1911-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	329	845	1,220	2,150	788	2,460	1,390	18,500	2,660	1,300	786	1,240
2	309	1,220	1,100	2,040	778	2,450	1,380	17,800	2,590	1,530	724	1,270
3	302	1,330	1,250	1,720	773	2,440	1,330	13,300	2,410	1,610	665	1,090
4	674	945	1,630	1,020	803	2,420	1,540	8,720	2,290	1,530	634	659
5	1,630	723	1,630	1,020	1,800	2,480	1,190	7,620	2,170	1,370	676	597
6	3,400	617	1,660	1,480	1,780	2,600	1,700	5,420	2,040	858	645	474
7	2,840	834	1,180	1,230	1,770	2,180	1,830	3,090	1,930	827	893	420
8	2,090	608	805	674	1,750	978	1,560	3,330	1,800	1,010	1,080	395
9	2,020	751	714	661	1,740	962	1,370	3,810	1,680	1,470	1,050	377
10	1,820	712	2,050	632	1,720	806	1,710	3,800	1,680	1,590	1,030	388
11	1,710	705	3,230	241	1,700	807	1,620	4,870	1,780	1,600	1,230	411
12	1,640	682	3,020	234	1,900	1,150	1,560	5,110	1,730	1,540	1,090	392
13	1,590	676	2,390	297	2,100	1,320	1,550	9,250	1,620	1,450	504	379
14	1,570	728	2,260	463	2,280	1,390	1,560	11,900	1,370	1,320	481	370
15	1,520	1,080	6,810	1,180	2,250	1,580	2,100	8,820	527	1,410	467	479
16	1,490	1,230	7,700	1,150	2,240	2,030	2,640	7,750	465	1,330	455	582
17	1,460	1,210	5,530	1,150	2,220	1,790	2,730	5,970	1,270	1,170	1,050	558
18	1,430	1,160	5,690	1,140	2,200	1,350	3,300	4,200	4,880	1,090	1,430	538
19	1,400	1,100	4,340	1,130	2,180	1,440	3,760	4,160	4,520	1,120	1,130	513
20	1,380	1,060	2,450	1,120	2,170	1,130	3,680	3,670	3,890	1,790	1,130	498
21	1,380	1,060	4,890	1,110	2,150	791	3,730	2,920	2,710	2,040	264	502
22	1,360	1,460	14,900	1,110	2,160	1,400	5,000	2,420	1,820	1,510	254	628
23	1,370	1,630	14,400	980	1,540	2,980	7,880	4,340	1,730	1,330	985	628
24	1,360	2,120	12,800	450	974	2,980	8,290	9,980	1,380	1,240	1,020	545
25	1,340	2,190	5,000	1,000	2,580	2,140	9,350	11,200	867	1,180	1,030	548
26	1,310	1,890	2,200	1,200	2,550	788	9,280	7,520	827	1,490	1,050	730
27	1,300	1,050	1,000	1,600	2,520	807	6,690	6,570	1,000	1,460	1,470	719
28	1,280	1,070	1,800	2,200	2,490	994	5,750	5,690	1,350	1,460	1,460	706
29	1,260	1,290	2,500	1,610	------	1,430	8,700	4,310	1,280	1,540	1,280	653
30	1,330	1,370	2,380	1,180	------	1,410	15,000	3,190	1,170	1,250	929	746
31	1,540	------	2,280	871	------	1,400	------	2,680	------	1,120	924	------
TOTAL	45,434	33,346	120,809	34,043	51,906	50,883	119,170	211,910	57,436	42,535	27,816	18,035
MEAN	1,466	1,112	3,897	1,098	1,854	1,641	3,972	6,836	1,915	1,372	897	601
MAX	3,400	2,190	14,900	2,200	2,580	2,980	15,000	18,500	4,880	2,040	1,470	1,270
MIN	302	608	714	234	773	788	1,190	2,420	465	827	254	370
MEAN*	1,234	1,382	4,018	889	503	1,500	5,690	6,744	1,915	1,222	303	463
CFSM*	1.42	1.58	4.61	1.02	.58	1.72	6.53	7.73	2.20	1.40	.35	.53
IN. *	1.64	1.76	5.32	1.18	.60	1.98	7.29	8.91	2.46	1.61	.40	.59

CAL YR 1973 TOTAL 745,231 MEAN 2,042 MAX 14,900 MIN 198 MEAN* 2,177 CFSM* 2.50 IN * 33.89
WTR YR 1974 TOTAL 813,323 MEAN 2,228 MAX 18,500 MIN 234 MEAN* 2,166 CFSM* 2.48 IN * 33.74

* Adjusted for change in contents in Flagstaff Lake.

01046500 Kennebec River at Bingham, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, on right bank at Bingham, 200 ft (60 m) downstream from highway bridge, 0.4 mi (0.6 km) downstream from Austin Stream, and 1.6 mi (2.6 km) downstream from Wyman Dam.

DRAINAGE AREA.--2,720 mi^2 (7,045 km^2).

PERIOD OF RECORD.--June 1907 to June 1910, October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 330.2 ft (100.64 m) above mean sea level. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

AVERAGE DISCHARGE.--46 years (1907-8, 1930-74), 4,408 ft^3/s (124.8 m^3/s), 22.01 in/yr (559 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 50,300 ft^3/s (1,420 m^3/s) Dec. 22 (gage height, 14.21 ft or 4.331 m); minimum daily, 3,020 ft^3/s (85.5 m^3/s) Oct. 21.

Period of record: Maximum discharge, 58,800 ft^3/s (1,670 m^3/s) Mar. 20, 1936 (gage height, 14.44 ft or 4.401 m), from rating curve extended above 30,000 ft^3/s (850 m^3/s) on basis of computations of flow at Wyman Dam plus inflow; minimum daily, 110 ft^3/s (3.12 m^3/s) Dec. 25, 1947.

REMARKS.--Records excellent. Flow regulated by Moosehead Lake (see sta 01040500, p. 59), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (see p. 69). Considerable diurnal fluctuation caused by powerplant above station. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS.--WSP 1271: 1951 (M). WSP 1301: 1936 (M). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.040	3.350	3.290	6.290	5.280	5.880	4.560	43.900	7.320	5.380	3.520	3.770
2	3.880	3.220	3.400	5.880	5.000	5.690	4.440	45.400	8.420	4.200	3.540	3.680
3	3.990	3.300	3.480	6.880	5.090	5.620	4.280	37.700	8.730	3.540	3.530	4.210
4	3.870	3.420	3.420	5.620	5.240	5.500	5.060	31.600	7.930	3.560	3.400	3.660
5	4.790	3.340	3.710	3.590	5.590	5.460	4.620	29.700	8.490	3.210	3.730	3.750
6	6.780	3.340	3.380	4.330	5.750	4.790	5.400	26.900	8.100	3.300	3.710	3.660
7	6.290	3.320	3.380	4.470	5.310	4.670	5.920	21.400	7.630	3.270	3.800	3.760
8	4.240	3.340	3.280	4.530	5.560	4.880	5.240	21.800	4.430	3.540	3.870	3.630
9	4.230	3.520	3.400	4.590	4.000	4.850	4.640	19.800	4.920	3.600	3.700	3.920
10	3.950	3.180	4.720	4.590	4.640	4.590	4.850	17.500	4.190	4.380	3.910	3.930
11	3.850	3.100	5.710	4.500	5.500	5.690	5.150	19.100	4.100	6.620	3.880	4.010
12	3.910	3.360	6.660	4.560	5.660	4.530	5.530	19.600	3.950	6.220	3.720	3.910
13	3.370	3.400	5.550	4.700	6.020	4.560	5.400	29.500	3.640	4.720	3.850	3.990
14	3.170	3.440	5.290	4.470	5.980	4.530	4.910	33.500	3.460	4.170	3.850	3.950
15	3.840	3.350	14.200	4.700	5.990	4.670	5.690	26.100	3.730	3.910	3.860	3.550
16	3.900	3.500	18.600	5.060	6.020	4.390	7.930	25.100	3.510	3.840	3.850	4.080
17	3.890	3.230	17.000	5.000	5.850	5.950	8.080	21.200	5.290	3.850	3.870	3.950
18	3.940	3.360	21.100	4.530	5.850	4.530	7.810	16.900	9.360	3.770	3.920	3.780
19	3.960	3.380	17.000	4.160	5.850	4.330	9.130	14.700	11.300	3.360	3.970	4.100
20	3.320	3.340	12.300	4.560	7.170	4.590	9.860	14.400	8.970	3.530	3.940	3.980
21	3.020	3.360	27.200	4.730	6.020	4.500	9.810	13.100	6.540	3.690	3.980	3.960
22	3.350	3.420	45.900	4.820	5.950	4.440	12.600	9.550	6.210	3.860	4.030	3.760
23	3.890	3.380	38.100	4.730	5.790	4.470	21.000	16.100	5.640	3.640	3.930	3.780
24	4.150	3.380	30.000	4.910	5.210	4.500	22.700	22.900	6.070	3.820	3.770	3.950
25	3.980	3.490	19.200	4.790	5.030	4.470	21.700	26.300	5.240	3.690	3.810	3.990
26	3.860	3.330	16.000	4.910	5.210	4.530	22.300	20.200	5.400	3.470	4.410	3.950
27	3.480	3.190	12.400	4.790	5.980	4.470	18.000	18.300	5.390	3.460	4.270	3.880
28	3.440	3.450	10.100	4.850	6.150	4.530	16.800	13.600	5.220	3.300	4.330	4.090
29	4.000	3.310	10.400	4.910	------	4.470	20.500	13.300	5.380	3.510	4.250	3.580
30	3.590	3.460	10.300	4.910	------	4.500	35.000	9.870	4.970	3.530	4.220	3.850
31	3.040	------	9.260	4.880	------	4.470	------	7.970	------	3.590	3.930	------
TOTAL	123.010	100.560	387.730	150.240	156.680	149.050	318.910	686.990	183.520	121.530	120.350	116.060
MEAN	3.968	3.352	12.510	4.846	5.596	4.808	10.630	22.160	6.117	3.920	3.882	3.869
MAX	6.780	3.520	45.900	6.880	7.170	5.950	35.000	45.400	11.300	6.620	4.410	4.210
MIN	3.020	3.100	3.280	3.590	4.000	4.330	4.280	7.970	3.460	3.210	3.400	3.550
MEAN*	3,803	3,553	13,920	3,446	1,829	4,528	16,100	22,070	6,011	3,847	1,565	1,087
CFSM*	1.40	1.31	5.12	1.27	.67	1.66	5.92	8.11	2.21	1.41	.58	.40
IN. *	1.61	1.46	5.90	1.46	.70	1.91	6.60	9.35	2.47	1.63	.66	.45

CAL YR 1973 TOTAL 2.431.920 MEAN 6.663 MAX 45.900 MIN 1.940 MEAN* 7,172 CFSM* 2.64 IN * 35.79
WTR YR 1974 TOTAL 2.614.630 MEAN 7.163 MAX 45.900 MIN 3.020 MEAN* 6,855 CFSM* 2.52 IN * 34.20

*Adjusted for change in contents in Brassua, Moosehead, and Flagstaff Lakes, and First Roach, Indian, Moxie and Wyman Ponds.

01047000 Carrabassett River near North Anson, Maine

LOCATION.--Lat 44°52'09", long 69°57'20", Somerset County, on left bank 3.4 mi (5.5 km) upstream from Mill Stream and North Anson.

DRAINAGE AREA.--354 mi² (917 km²).

PERIOD OF RECORD.--November and December 1901, June 1902 to May 1907, August 1925 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 303.3 ft (92.45 m) above mean sea level. November 1, 1901, to May 5, 1907, nonrecording gage 1 mi (2 km) upstream at different datum.

AVERAGE DISCHARGE.--53 years (1902-6, 1925-74), 710 ft³/s (20.11 m³/s), 27.24 in/yr (692 mm/yr).

EXTREMES.--Current year: Maximum discharge, 21,200 ft³/s (600 m³/s) Dec. 22 (gage height, 16.92 ft or 5.159 m); minimum discharge, 108 ft³/s (3.06 m³/s) Aug. 16, 17 (gage height, 2.90 ft or 0.884 m).

Period of record: Maximum discharge, 30,800 ft³/s (872 m³/s) Mar. 19, 1936 (gage height, 21.17 ft or 6.453 m); minimum 18 ft³/s (0.51 m³/s) Oct. 29, 1929 (gage height, 2.02 ft or 0.616 m).

REVISIONS.--The maximum discharge for the water year 1951 has been revised to 20,100 ft³/s (569 m³/s) Apr. 4, 1951 (gage height, 16.98 ft or 5.176 m), superseding figure published in WSP 1201 and 1721.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flows by mills above station. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 851: Drainage area. WSP 1231: 1904-7, 1928 (M), 1932 (M), 1936 (M), 1938 (M), 1944 (M), 1950 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	2.060	810	810	615	345	693	6.670	1.020	586	429	208
2	146	3.020	617	740	500	330	694	4.680	1.020	591	336	174
3	157	1.870	454	685	410	325	649	2.710	875	466	284	173
4	1.170	1.330	479	630	350	320	1.190	2.210	762	464	254	540
5	1.890	892	494	585	320	375	2.120	1.850	668	1.680	346	602
6	2.140	610	1.510	550	300	530	3.540	1.480	592	1.720	305	382
7	1.260	544	1.540	515	290	900	2.360	1.400	522	1.050	244	291
8	797	523	1.110	485	275	1.800	1.790	1.690	440	757	213	246
9	555	501	815	470	265	1.250	1.380	1.540	351	613	191	213
10	374	459	4.730	460	250	870	1.030	1.430	445	741	175	191
11	349	414	2.960	470	245	600	962	2.260	807	655	159	185
12	327	386	1.860	460	235	515	913	1.900	600	545	146	183
13	307	437	1.240	425	230	465	1.060	6.280	462	480	136	170
14	294	497	2.000	400	225	435	1.070	3.840	390	397	128	156
15	286	404	11.800	375	220	425	2.550	2.560	383	341	120	143
16	276	1.120	8.280	355	220	420	3.110	2.210	348	366	114	136
17	265	1.260	8.310	340	215	1.500	2.570	1.650	6.680	319	117	130
18	251	919	9.950	335	215	5.700	3.270	1.420	7.430	276	719	129
19	241	696	5.560	330	210	2.650	3.300	1.200	3.560	268	463	129
20	239	549	2.300	330	220	1.570	2.600	1.010	2.040	682	328	135
21	264	427	8.620	325	235	1.040	2.530	881	1.400	765	265	164
22	247	446	14.000	395	270	883	4.700	831	1.070	511	222	380
23	185	433	7.860	460	500	750	7.400	2.980	826	407	194	315
24	175	435	3.400	435	930	572	8.520	4.480	567	426	208	218
25	171	512	2.200	325	920	646	4.500	3.410	496	358	254	182
26	169	619	1.700	295	620	652	3.460	2.590	494	294	214	170
27	170	530	1.440	400	425	705	2.720	2.010	854	266	177	164
28	169	560	1.310	1.330	365	576	3.090	1.630	746	255	189	158
29	166	994	1.200	1.180	------	609	4.670	1.350	570	384	201	174
30	1.240	1.020	1.060	950	------	469	6.090	1.200	522	359	238	298
31	4.760	------	905	790	------	538	------	1.060	------	509	259	------
TOTAL	19.197	24.467	110.514	16.635	10.075	28.765	84.531	72.412	36.940	17.531	7.628	6.739
MEAN	619	816	3.565	537	360	928	2.818	2.336	1.231	566	246	225
MAX	4.760	3.020	14.000	1.330	930	5.700	8.520	6.670	7.430	1.720	719	602
MIN	146	386	454	295	210	320	649	831	348	255	114	129
CFSM	1.75	2.31	10.1	1.52	1.02	2.62	7.96	6.60	3.48	1.60	.69	.64
IN.	2.02	2.57	11.61	1.75	1.06	3.02	8.88	7.61	3.88	1.84	.80	.71

CAL YR 1973 TOTAL 441.561 MEAN 1.210 MAX 14.000 MIN 119 CFSM 3.42 IN 46.40
WTR YR 1974 TOTAL 435.434 MEAN 1.193 MAX 14.000 MIN 114 CFSM 3.37 IN 45.76

PEAK DISCHARGE (BASE, 6,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-31	0200	10.59	8,670	4-24	0600	11.97	11,100
12-15	0500	14.84	16,700	5-01	1600	10.92	9,260
12-18	0500	12.77	12,600	5-13	1100	11.59	10,500
12-22	0500	16.92	21,200	5-24	0100	9.07	6,180
3-18	0100	10.53	8,570	6-17	2200	14.92	16,800

01048000 Sandy River near Mercer, Maine

LOCATION.--Lat 44°42'26", long 69°56'21", Somerset County, on right bank 0.9 mi (1.4 km) upstream from Bog Stream, 2.1 mi (3.4 km) north of Mercer, and 8.6 mi (13.8 km) upstream from mouth.

DRAINAGE AREA.--514 mi² (1,331 km²).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 197.1 ft (60.08 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 954 ft³/s (27.02 m³/s), 25.20 in/yr (640 mm/yr).

EXTREMES.--Current year: Maximum discharge, 25,600 ft³/s (725 m³/s) Dec. 22 (gage height, 13.63 ft or 4.154 m); minimum discharge, 119 ft³/s (3.37 m³/s) Aug. 17 (gage height, 2.81 ft or 0.856 m).

Period of record: Maximum discharge, 38,600 ft³/s (1,090 m³/s) Mar. 19, 1936 (gage height, 16.75 ft or 5.105 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of records for stations on Kennebec River at Bingham and Waterville, Carrabassett River near North Anson, and Sebasticook River near Pittsfield; maximum gage height, 18.89 ft (5.758 m) Feb. 12, 1970 from floodmark (backwater from ice); minimum discharge, 32 ft³/s (0.91 m³/s) Sept. 22-26, 1939 (gage height, 2.15 ft or 0.655 m).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: 1933. WSP 801: Drainage area. WSP 1231: 1936 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	2,700	1,180	1,150	820	530	1,100	6,140	1,530	807	428	340
2	295	4,060	933	1,050	670	515	1,280	5,880	1,530	973	316	257
3	307	2,560	808	980	550	500	1,100	3,020	1,270	755	258	226
4	373	1,860	777	920	490	490	2,050	2,630	1,100	650	238	822
5	2,000	1,440	929	850	460	550	3,210	2,450	974	2,250	253	1,090
6	2,540	1,260	2,770	800	420	800	5,840	1,940	876	3,120	311	651
7	1,350	1,070	2,350	740	400	1,300	3,780	1,850	776	1,700	254	444
8	855	944	1,680	720	390	2,500	2,960	2,450	702	1,160	217	351
9	657	884	1,300	690	370	1,700	2,380	2,080	643	1,030	193	294
10	535	845	6,760	660	360	1,200	1,650	1,880	618	1,920	176	250
11	469	751	4,180	640	350	920	1,660	3,550	743	1,590	162	225
12	435	711	2,590	620	340	800	1,630	2,710	751	1,040	153	216
13	405	683	1,740	600	330	720	1,960	7,810	617	829	144	208
14	375	676	3,090	570	320	680	2,060	5,650	509	675	137	190
15	353	703	13,800	550	320	640	5,220	3,200	474	576	138	169
16	337	1,740	5,930	520	315	630	5,700	2,610	458	524	127	152
17	325	2,230	5,440	510	310	6,680	3,960	2,140	4,060	464	122	141
18	312	1,330	15,000	500	310	9,200	4,740	1,860	9,000	404	264	135
19	297	1,010	6,150	490	300	3,710	4,840	1,590	3,450	372	575	128
20	300	864	3,710	480	315	2,360	3,650	1,380	2,190	463	320	133
21	407	803	8,960	490	340	1,600	3,250	1,220	1,580	594	253	154
22	403	772	20,000	515	370	1,170	4,570	1,130	1,260	458	198	301
23	357	771	6,080	540	540	1,310	7,680	2,310	1,050	384	167	490
24	328	757	3,890	500	1,250	1,290	11,700	6,530	893	334	173	315
25	312	940	2,550	455	1,150	1,250	6,450	4,420	769	300	325	243
26	299	1,160	2,350	660	800	1,040	5,130	3,350	738	273	242	209
27	296	943	2,050	430	640	944	4,070	2,830	1,230	250	193	193
28	298	1,090	1,800	1,400	560	824	3,980	2,310	1,190	242	278	191
29	370	1,760	1,600	1,900	------	714	4,720	1,880	894	265	390	196
30	1,890	1,550	1,600	1,400	------	731	5,770	1,660	775	335	414	455
31	7,180	------	1,280	1,050	------	790	------	1,590	------	353	443	------
TOTAL	24,966	38,867	133,777	23,380	13,790	48,088	118,090	92,050	42,650	25,090	7,862	9,169
MEAN	805	1,296	4,315	754	493	1,551	3,936	2,969	1,422	809	254	306
MAX	7,180	4,060	20,000	1,900	1,250	9,200	11,700	7,810	9,000	3,120	575	1,090
MIN	295	676	777	430	300	490	1,100	1,130	458	242	122	128
CFSM	1.57	2.52	8.39	1.47	.96	3.02	7.66	5.78	2.77	1.57	.49	.60
IN.	1.81	2.81	9.68	1.69	1.00	3.48	8.55	6.66	3.09	1.82	.57	.66

CAL YR 1973 TOTAL 611,950 MEAN 1,677 MAX 20,000 MIN 162 CFSM 3.26 IN 44.29
WTR YR 1974 TOTAL 577,777 MEAN 1,583 MAX 20,000 MIN 122 CFSM 3.08 IN 41.82

PEAK DISCHARGE (BASE, 6,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-31	0700	8.77	9,560	4-24	1300	10.29	14,000
12-18	1200	11.27	16,800	5-01	2300	8.57	9,020
12-22	0800	13.63	25,600	5-13	1900	9.59	11,900
3-17	2300	10.25	13,800	5-24	0800	8.08	7,750
4-06	0600	7.45	6,230	6-18	0500	9.75	12,400
4-15	2200	7.72	6,880				

01049000 Sebasticook River near Pittsfield, Maine

LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, on right bank 1.7 mi (2.7 km) upstream from Twentyfivemile Stream, and 5.0 mi (8.0 km) south of Pittsfield.

DRAINAGE AREA.--579 mi^2 (1,500 km^2).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 133.9 ft (40.81 m) above mean sea level.

AVERAGE DISCHARGE.--45 years (1929-74), 946 ft^3/s (26.79 m^3/s), 22.19 in yr (564 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,300 ft^3/s (292 m^3/s) Dec. 23 (gage height, 11.15 ft or 3.398 m); minimum daily, 195 ft^3/s (5.52 m^3/s) Aug. 23.
Period of record: Maximum discharge, 14,400 ft^3/s (408 m^3/s) Mar. 22, 1936 (gage height, 13.18 ft or 4.017 m); minimum daily, 4.5 ft^3/s (0.13 m^3/s) Nov. 10, 1956.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by dam 0.4 mi (0.6 km) upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond (combined capacity, about 2,345,000,000 ft^3 or 66,410,000 m^3).

REVISIONS.--WSP 1271: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	366	1,500	1,320	2,570	1,030	586	1,250	4,510	1,870	820	510	360
2	356	1,900	1,260	2,280	954	570	1,370	4,500	1,690	730	494	310
3	359	2,150	1,140	2,070	827	558	1,440	4,430	1,540	649	477	290
4	492	2,200	1,000	1,790	678	542	1,630	4,270	1,370	600	470	350
5	769	2,090	918	1,620	581	685	1,930	4,090	1,210	603	470	466
6	1,060	1,870	1,330	1,470	475	952	2,520	3,830	1,089	770	422	392
7	1,150	1,640	1,700	1,350	425	1,230	2,930	3,520	959	912	361	350
8	1,120	1,410	1,850	1,250	395	1,610	3,040	3,270	857	881	341	408
9	1,040	1,210	1,850	1,170	370	1,610	2,960	3,050	788	834	304	473
10	962	1,080	2,250	1,100	345	1,520	2,740	2,830	725	866	296	335
11	877	932	2,790	1,050	320	1,400	2,510	2,680	697	820	276	275
12	771	793	3,220	990	300	1,270	2,330	2,540	646	752	271	262
13	677	671	3,280	950	285	1,110	2,150	2,730	525	678	264	244
14	609	557	3,140	900	270	969	2,060	3,030	420	619	258	231
15	556	521	3,320	860	260	844	2,420	3,150	390	595	251	218
16	486	660	3,770	830	250	761	3,270	3,080	380	645	243	211
17	371	924	4,660	800	240	1,900	3,650	2,910	512	630	235	200
18	317	1,170	7,030	780	235	3,510	3,680	2,700	781	591	248	198
19	293	1,350	8,750	760	230	4,180	3,600	2,400	1,010	573	225	200
20	269	1,330	9,160	750	230	4,310	3,460	2,120	1,060	758	228	247
21	286	1,230	9,030	740	240	4,130	3,260	1,860	1,040	860	207	488
22	280	1,120	9,560	760	270	3,690	3,080	1,540	946	758	196	689
23	272	1,050	10,200	780	874	3,150	3,010	1,420	889	664	195	671
24	267	996	10,200	816	1,100	2,700	3,780	1,910	817	623	220	633
25	256	1,020	10,200	754	1,050	2,360	4,920	2,380	739	663	240	591
26	246	1,060	8,410	711	892	2,030	5,650	2,650	696	651	231	463
27	238	1,030	6,090	727	756	1,790	5,770	2,740	786	614	215	399
28	228	1,050	4,970	980	682	1,630	5,520	2,690	864	579	270	374
29	210	1,240	4,090	1,090	------	1,480	5,120	2,530	864	561	330	381
30	327	1,350	3,460	1,120	------	1,360	4,730	2,330	841	539	410	404
31	1,110	------	2,050	958	------	1,240	------	2,100	------	536	460	------
TOTAL	16,590	37,104	142,878	34,776	14,567	55,637	95,740	89,790	27,010	21,354	9,626	11,113
MEAN	535	1,237	4,609	1,122	520	1,795	3,191	2,896	900	689	311	370
MAX	1,150	2,200	10,200	2,570	1,100	4,310	5,770	4,510	1,870	912	510	689
MIN	210	521	918	711	230	542	1,250	1,420	380	536	195	198

CAL YR 1973 TOTAL 599,161 MEAN 1,642 MAX 10,200 MIN 126
WTR YR 1974 TOTAL 556,185 MEAN 1,524 MAX 10,200 MIN 195

01049300 North Branch Tanning Brook near Manchester, Maine

LOCATION.--Lat 44°21'00", long 69°51'07", Kennebec County, on right bank 28 ft (8.5 m) upstream from culvert under road between U.S. Highway 202 and State Highway 135, 1,800 ft (550 m) upstream from mouth, and 1.8 mi (2.9 km) north of Manchester.

DRAINAGE AREA.--0.93 mi² (2.41 km²).

PERIOD OF RECORD.--November 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 210 ft (64.0 m), from topographic map.

AVERAGE DISCHARGE.--10 years (1965-74), 2.06 ft³/s (0.0583 m³/s), 30.08 in/yr (764 mm/yr).

EXTREMES.--Current year: Maximum discharge, 195 ft³/s (5.52 m³/s) Dec. 17 (gage height 3.89 ft or 1.186 m); minimum, 0.12 ft³/s (0.003 m³/s) Aug. 16 (gage height, 0.61 ft or 0.019 m).
Period of record: Maximum discharge, 195 ft³/s (5.52 m³/s) Dec. 17, 1973 (gage height, 3.89 ft or 1.186 m); minimum, 0.05 ft³/s (0.001 m³/s) Aug. 21, 1970.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	4.0	1.7	3.5	2.0	1.3	4.3	6.8	3.0	1.8	.63	.73
2	.23	4.5	1.3	3.0	1.7	1.2	3.3	5.6	2.4	1.3	.58	.55
3	.32	1.9	1.0	2.5	1.4	1.4	5.1	4.5	2.0	1.2	.52	1.1
4	1.7	1.4	1.1	2.1	1.3	2.0	7.4	3.8	1.6	6.5	.56	13
5	2.6	1.0	1.8	1.9	1.1	4.1	20	3.4	1.4	8.6	.78	2.9
6	2.4	.81	4.7	1.8	1.1	4.9	13	3.1	1.2	3.3	.48	1.4
7	1.4	.70	2.9	1.7	.96	5.5	5.3	4.5	1.1	2.1	.35	1.0
8	.80	.64	1.9	1.6	.88	4.9	3.9	5.6	1.0	1.5	.32	.83
9	.61	.60	5.1	1.5	.86	2.9	2.8	3.9	.90	8.2	.28	.69
10	.51	.56	14	1.4	.82	2.2	2.8	4.5	.82	9.9	.22	.67
11	.49	.47	6.6	1.3	.78	1.6	2.8	7.4	.75	2.9	.20	.65
12	.47	.37	4.2	1.3	.74	1.3	2.8	5.6	.68	1.8	.19	.64
13	.41	.68	2.8	1.2	.72	1.1	3.2	14	.64	1.4	.18	.62
14	.39	.54	5.5	1.1	.71	1.1	4.0	8.0	.60	1.4	.17	.62
15	.38	.68	18	1.1	.70	1.2	28	5.4	.66	1.1	.16	.58
16	.39	2.2	7.6	1.1	.68	1.8	10	3.8	1.5	.86	.14	.55
17	.37	1.6	69	1.1	.67	74	4.7	3.0	13	.85	.28	.47
18	.35	1.1	42	1.1	.66	4.7	3.8	2.5	6.4	.76	.61	.43
19	.31	.80	9.8	1.1	.66	2.6	3.3	2.2	3.3	.68	.48	.43
20	.44	.70	5.7	1.0	.74	2.3	2.9	2.0	2.5	.81	.43	.42
21	1.2	.60	68	1.0	1.1	1.5	2.7	1.8	2.1	.78	.40	.69
22	1.0	.66	23	3.7	2.1	1.8	3.1	2.1	1.7	.70	.36	1.5
23	.75	.78	8.4	2.8	5.0	1.7	5.0	4.5	1.3	.65	.34	.91
24	.61	.80	5.5	2.3	3.0	4.4	10	10	1.2	.59	.35	.56
25	.54	1.4	3.2	2.0	2.0	4.2	8.0	6.0	1.2	.56	.33	.33
26	.51	1.2	2.9	1.7	1.6	2.4	6.0	4.5	2.6	.51	.29	.31
27	.44	1.0	5.2	3.3	1.4	1.8	4.5	3.0	3.4	.48	.23	.30
28	.40	3.8	9.6	9.0	1.3	1.9	3.7	2.1	2.1	.44	.23	.29
29	.41	4.3	7.0	6.2	------	1.3	3.4	1.8	1.6	.45	1.2	.53
30	23	2.5	4.9	3.7	------	1.2	3.0	1.7	2.5	.48	2.1	.95
31	6.4	------	4.1	2.4	------	3.1	------	2.5	------	.63	1.2	------
TOTAL	50.27	42.09	348.5	70.5	36.68	147.4	182.8	139.6	65.15	63.23	14.59	34.65
MEAN	1.62	1.40	11.2	2.27	1.31	4.75	6.09	4.50	2.17	2.04	.47	1.16
MAX	23	4.5	69	9.0	5.0	74	28	14	13	9.9	2.1	13
MIN	.23	.37	1.0	1.0	.66	1.1	2.7	1.7	.60	.44	.14	.29
CFSM	1.74	1.51	12.0	2.44	1.41	5.11	6.55	4.84	2.33	2.19	.51	1.25
IN.	2.01	1.68	13.94	2.82	1.47	5.90	7.31	5.58	2.61	2.53	.58	1.39

CAL YR 1973 TOTAL 1,339.82 MEAN 3.67 MAX 69 MIN .20 CFSM 3.95 IN 53.59
WTR YR 1974 TOTAL 1,195.46 MEAN 3.28 MAX 74 MIN .14 CFSM 3.53 IN 47.82

PEAK DISCHARGE (BASE, 30 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	1530	2.93	75	4-05	1630	2.63	46
12-17	1900	3.89	195	4-15	0445	2.54	38
12-21	1230	3.51	143	9-04	0645	2.44	31
3-17	0415	3.73	172				

Note.--No gage height record Apr. 23 to June 18.

Reservoirs in Kennebec River basin

01038500 BRASSUA LAKE on Moose River, 4 mi (6 km) southwest of Rockwood, Maine, completed in 1928, for power, has usable capacity of 8,560,000 ft^3 (242,400,000 m^3) between elevations 1,043.0 and 1,073.0 ft (317.91 and 327.05 m). Elevation record furnished by Kennebec Water Power Co.

01040000 FIRST ROACH POND on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 ft^3 (26,560,000 m^3) between gage heights 1.0 adn 8.0 ft (0.30 and 2.44 m). Gage-height record furnished by Kennebec Water Power Co.

01040500 MOOSEHEAD LAKE on Kennebec River (see p. 59).

01041500 INDIAN POND on Kennebec River, in T. 1, R. 6, Maine, 13 mi (21 km) downstream from east outlet of Moosehead Lake, completed in 1954 for power, has capacity of 830,000,000 ft^3 (23,510,000 m^3) in normal operating range between elevations 950.0 and 955.0 ft or 289.56 and 291.08 m (total capacity of pond, 3,150,000,000 ft^3 or 89,210,000 m^3 below elevation 955.0 ft or 291.08 m). Elevation record furnished by Central Maine Power Co.

01042000 MOXIE POND on Moxie Stream, 4.8 mi (7.7 km) east of The Forks, Maine, used for power, has usable capacity of 640,000,000 ft^3 (18,120,000 m^3) between gage heights 6.0 and 14.0 ft (1.83 and 4.27 m). Gage-height record furnished by Kennebec Water Power Co.

01043000 FLAGSTAFF LAKE on Dead River, in T. 3, R. 4, Maine, 0.8 mi (1.3 km) upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 ft^3 (341,300,000 m^3) between elevations 1,110.0 and 1,146.0 ft (338.33 and 349.30 m). Elevation record furnished by Kennebec Water Power Co.

01045500 WYMAN POND on Kennebec River, 1.5 mi (2.4 km) upstream from Bingham, Maine, completed in 1930 for power, has capacity of 2,630,000,000 ft^3 (74,480,000 m^3) in normal operating range between elevations 465.0 and 485.0 ft or 141.73 and 147.83 m (total capacity of pond, 9,080,000,000 ft^3 or 257,100,000 m^3 below elevation 485.0 ft or 147.83 m). Elevation record furnished by Central Maine Power Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
SEPT. 30, 1973	9,109	705	3,024	60	11,728	8,830
OCT. 31	7,152	705	2,902	0	11,108	9,020
NOV. 30	8,035	705	3,258	0	11,808	9,020
DEC. 31	9,281	938	2,834	640	12,131	9,050
JAN. 31, 1974	7,709	0	2,988	0	11,570	8,920
FEB. 28	5,751	0	2,988	0	8,302	8,930
MAR. 31	3,658	0	3,150	0	7,924	8,820
APR. 30	9,324	911	3,366	730	12,377	9,110
MAY 31	9,066	911	3,294	694	12,131	9,060
JUNE 30	9,109	870	3,312	640	12,131	8,850
JULY 31	9,109	801	3,294	550	11,728	9,040
AUG. 31	8,896	774	3,222	568	10,138	9,000
SEPT. 30	8,358	530	3,222	0	9,780	8,860

Note.--Indian and Wyman Pond contents at 2400 on day shown. All others at 0700 on first day of following month. Gates removed and no usable storage now available in Spencer Lake, which previously was listed in this table.

01052500 Diamond River near Wentworth Location, N.H.

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.6 mi (2.6 km) north of Wentworth Location.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,275 ft (389 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 347 ft³/s (9.827 m³/s), 30.80 in/yr (782 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,530 ft³/s (185 m³/s) Apr. 30 (gage height, 9.36 ft or 2.853 m); minimum, 24 ft³/s (0.68 m³/s) Aug. 17, 27 (gage height, 1.31 ft or 0.399 m).

Period of record: Maximum discharge, 8,630 ft³/s (244 m³/s) June 16, 1943 (gage height, 10.66 ft or 3.249 m), from rating curve extended above 3,900 ft³/s (110 m³/s); minimum, 6.8 ft³/s (0.19 m³/s) Aug. 27, 28, 1949, Sept. 1, 1952 (gage height, 0.81 ft or 0.247 m).

REMARKS.--Records excellent except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	260	420	388	215	195	190	5.270	586	343	209	45
2	139	1.020	311	318	195	185	190	3.550	529	259	134	32
3	190	744	286	279	180	171	220	1.590	423	167	92	36
4	1.050	523	323	250	170	172	500	1.840	882	343	74	209
5	1.040	360	342	235	165	250	1.580	1.370	529	1.110	74	166
6	1.620	267	1.200	225	160	450	1.610	1.010	402	570	66	83
7	761	251	994	215	155	660	1.090	988	330	346	55	55
8	493	239	466	205	170	880	700	903	278	254	48	42
9	383	227	361	195	160	680	495	774	242	302	44	35
10	321	200	684	190	145	500	410	1.030	231	1.600	41	32
11	281	193	564	190	135	390	373	1.740	276	797	37	37
12	252	192	369	185	126	300	344	1.280	254	439	33	34
13	229	190	227	180	121	250	331	2.600	192	309	31	30
14	240	242	487	180	120	225	345	2.160	161	237	28	29
15	242	586	1.210	175	115	210	1.180	1.630	146	197	27	31
16	222	1.370	591	170	102	285	1.290	1.570	134	174	26	27
17	214	856	372	170	95	400	868	1.090	366	146	25	27
18	199	510	352	165	94	1.000	957	925	629	128	123	32
19	183	371	285	165	92	500	981	702	381	160	80	40
20	176	336	288	160	89	370	898	555	250	318	53	34
21	194	278	1.830	160	89	340	1.010	476	212	189	43	44
22	179	292	3.510	260	90	310	2.110	465	179	139	33	178
23	165	305	1.500	300	168	295	4.870	2.370	156	124	28	111
24	155	349	707	280	450	280	4.690	3.450	131	121	27	68
25	147	545	481	240	600	330	2.030	1.950	119	98	31	51
26	142	554	737	210	420	300	1.220	1.490	167	90	30	53
27	136	377	1.310	320	300	260	1.010	1.050	387	85	26	61
28	128	424	1.060	500	230	240	1.750	780	244	98	77	52
29	123	818	692	370	-------	220	4.380	635	160	222	52	96
30	150	587	551	290	-------	210	5.650	562	141	136	76	473
31	207	-------	431	240	-------	200	-------	518	-------	109	68	-------
TOTAL	10.111	13.486	22.915	7.410	5.151	10.978	43.272	46.363	9.117	9.610	1.791	2.243
MEAN	326	450	739	239	184	354	1.442	1.496	304	310	57.8	74.8
MAX	1.620	1.370	3.510	500	600	1.000	5.650	5.270	882	1.600	209	473
MIN	123	190	227	160	89	171	190	465	119	85	25	27
CFSM	2.13	2.94	4.83	1.56	1.20	2.31	9.42	9.78	1.99	2.03	.38	.49
IN.	2.46	3.28	5.57	1.80	1.25	2.67	10.52	11.27	2.22	2.34	.44	.55

CAL YR 1973 TOTAL 196.145 MEAN 537 MAX 3.860 MIN 49 CFSM 3.51 IN 47.69
WTR YR 1974 TOTAL 182.447 MEAN 500 MAX 5.650 MIN 25 CFSM 3.27 IN 44.36

PEAK DISCHARGE (BASE, 3,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	-	-	4,800	4-30	0100	9.36	6,530
4-24	0300	8.92	5,760	5-24	0700	7.75	4,080

01053500 Androscoggin River at Errol, N.H.

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, on right bank 0.4 mi (0.6 km) downstream from Errol Dam, 0.4 mi (0.6 km) northeast of Errol, and 0.6 mi (1.0 km) upstream from Clear Stream.

DRAINAGE AREA.--1,045 mi² (2,707 km²).

PERIOD OF RECORD.--January 1905 to current year. October 1922 to November 1943, monthly discharge only, published in WSP 1301. Prior to 1922, published as "at Errol Dam."

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft (374.081 m) above mean sea level. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft (1.52 m) higher.

AVERAGE DISCHARGE.--69 years, 1,898 ft³/s (53.75 m³/s), 24.67 in/yr (627 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 11,700 ft³/s (331 m³/s) May 5 (gage height, 7.97 ft or 2.429 m); minimum daily, 1,010 ft³/s (28.6 m³/s) July 5.
Period of record: Maximum daily discharge, 16,100 ft³/s (456 m³/s) May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.
Instantaneous maximum discharge not available prior to Dec. 9, 1943.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (see p. 81), with final regulation at Errol Dam.

COOPERATION.--Records prior to Dec. 9, 1943, furnished by Union Water Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.900	1.380	1.930	7.830	1.900	2.100	2.080	6.790	5.480	1.410	2.080	1.930
2	1.960	1.030	2.050	6.760	1.980	2.080	2.110	8.760	1.700	1.370	2.100	2.000
3	1.840	1.150	2.120	6.260	2.010	2.080	2.080	10.100	1.370	1.530	2.100	1.890
4	1.360	1.320	2.150	5.560	2.060	2.080	1.620	11.100	1.390	1.380	2.100	1.480
5	1.210	1.650	2.030	4.830	2.110	1.860	1.010	11.300	1.430	1.010	2.080	1.590
6	1.130	1.790	1.810	4.160	2.160	1.730	1.960	11.000	1.490	1.280	2.100	1.770
7	1.480	1.790	1.390	4.000	2.190	1.840	2.680	10.400	1.570	1.840	2.140	1.900
8	1.640	1.720	1.750	3.840	2.190	2.020	2.320	9.630	1.580	2.460	2.140	1.900
9	1.710	1.750	1.930	3.520	2.190	1.970	1.730	8.970	1.590	2.570	2.150	1.990
10	1.800	1.790	1.650	2.990	2.240	2.010	1.680	7.470	1.630	4.280	2.160	2.050
11	1.850	1.790	1.540	2.880	2.320	2.050	1.610	7.850	1.670	5.360	2.180	2.060
12	1.860	1.860	1.990	2.710	2.310	2.010	1.610	5.830	1.730	5.230	2.180	2.030
13	1.920	1.850	2.190	2.630	2.250	2.160	1.510	6.880	1.790	4.130	2.150	2.020
14	1.900	1.920	2.680	2.640	2.250	2.200	1.510	8.760	1.840	2.700	2.120	2.030
15	1.890	1.800	4.230	2.630	2.340	2.140	1.580	9.670	1.800	2.310	2.110	2.050
16	1.840	1.550	5.140	1.980	2.290	2.030	2.170	10.000	1.760	2.050	2.180	2.030
17	1.790	1.840	5.650	1.720	2.240	2.010	2.620	9.670	1.580	2.050	2.140	2.080
18	1.810	1.710	5.970	1.760	2.230	1.970	2.600	9.100	2.900	2.050	2.030	2.060
19	1.850	1.640	5.600	1.610	2.250	1.980	2.630	7.040	4.750	1.920	2.050	2.050
20	1.840	1.840	5.650	2.180	2.310	1.960	2.630	5.320	3.520	1.820	2.070	1.990
21	1.820	1.920	6.680	2.480	2.290	2.000	2.630	3.820	2.780	1.960	2.100	1.840
22	1.840	1.960	7.530	2.520	2.280	1.880	2.840	3.410	2.280	2.050	2.150	1.680
23	1.900	2.010	8.150	2.480	2.250	1.940	3.780	6.380	2.120	2.080	2.150	1.810
24	1.940	2.070	8.000	1.610	2.240	2.020	5.180	9.010	2.200	2.100	2.180	1.920
25	1.930	1.620	7.880	1.380	2.180	2.010	5.740	9.870	2.240	2.100	2.190	1.970
26	1.900	1.710	8.090	1.660	2.110	2.010	5.280	9.950	2.110	2.110	2.200	1.970
27	1.900	1.770	8.150	2.230	2.100	2.030	4.700	9.250	1.960	2.150	2.160	1.970
28	1.940	1.630	8.210	2.380	2.100	2.070	4.320	7.380	1.940	2.100	1.980	1.920
29	1.930	1.570	8.230	1.820	------	2.110	4.580	5.670	2.100	1.980	1.890	1.730
30	1.440	1.660	8.020	1.820	------	2.120	5.550	6.420	1.930	2.060	1.810	1.590
31	1.160	------	8.000	1.800	------	2.110	------	7.160	------	2.080	1.880	------
TOTAL	54.280	51.070	146.390	94.670	61.370	62.580	84.340	253.960	64.230	71.520	65.050	57.300
MEAN	1.751	1.702	4.722	3.054	2.192	2.019	2.811	8.192	2.141	2.307	2.098	1.910
MAX	1.960	2.070	8.230	7.830	2.340	2.200	5.740	11.300	5.480	5.360	2.200	2.080
MIN	1.130	1.030	1.390	1.380	1.900	1.730	1.010	3.410	1.370	1.010	1.810	1.480
MEAN*	1,910	2,190	4,679	1,282	691	1,929	7,931	8,490	2,197	1,844	262	506
CFSM*	1.83	2.10	4.48	1.23	.66	1.85	7.59	8.12	2.10	1.76	.25	.48
IN. *	2.11	2.34	5.16	1.42	.69	2.13	8.47	9.36	2.34	2.03	.29	.54

CAL YR 1973 TOTAL 908.169 MEAN 2.488 MAX 10.200 MIN 979 MEAN* 2,751 CFSM* 2.63 IN * 35.72
WTR YR 1974 TOTAL 1.066.760 MEAN 2.923 MAX 11.300 MIN 1.010 MEAN* 2,841 CFSM* 2.72 IN * 36.88

* Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.

01054000 Androscoggin River near Gorham, N.H.

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, on right bank at Pulsifer Rips, 2.2 mi (3.5 km) downstream from Dead River and 4.0 mi (6.4 km) upstream from Gorham.

DRAINAGE AREA.--1,363 mi^2 (3,530 km^2).

PERIOD OF RECORD.--October 1913 to current year. October 1922 to February 1929, monthly discharge only, published in WSP 1301. Prior to October 1928, published as "at Berlin."

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft (253.862 m) above mean sea level. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi (5 km) upstream at different datum.

AVERAGE DISCHARGE.--61 years, 2,465 ft^3/s (69.81 m^3/s), 24.56 in/yr (624 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 15,100 ft^3/s (428 $m^3/2$) Dec. 22 (gage height, 8.76 ft or 2.670 m); minimum daily, 1,860 ft^3/s (52.7 m^3/s) Jan. 20.
Period of record: Maximum daily discharge, 20,000 ft^3/s (566 m^3/s) June 18, 1917, Apr. 30, 1923; minimum daily, 795 ft^3/s (22.5 m^3/s) Mar. 15, 1948.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umgagog Lakes (combined usable capacity, 28,100,000,000 ft^3 or 796,000,000 m^3, see p. 81), with final regulation at Errol Dam 35 mi (56 km) upstream. Diurnal fluctuation cuased by powerplant 0.8 mi (1.3 km) upstream.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,010	2,400	2,410	8,450	2,490	2,390	2,560	11,000	8,000	2,500	2,220	2,090
2	2,040	2,790	2,500	8,050	2,350	2,400	2,540	12,000	4,650	2,110	2,200	2,060
3	2,100	2,180	2,530	6,890	2,470	2,380	2,660	11,300	2,490	1,890	2,180	2,190
4	2,180	2,060	2,600	6,620	2,420	2,430	3,100	12,600	2,180	2,110	2,220	2,470
5	2,030	2,080	2,640	5,680	2,370	2,800	3,570	13,400	2,180	2,550	2,230	2,160
6	2,300	2,180	2,770	4,890	2,380	2,990	4,460	12,400	2,090	2,090	2,190	2,020
7	2,100	2,180	2,680	4,470	2,460	3,340	4,580	11,900	2,090	2,180	2,200	2,010
8	2,080	2,130	2,020	4,130	2,420	3,790	4,530	11,100	2,090	2,540	2,260	2,050
9	2,060	2,070	2,540	3,720	2,410	3,420	3,330	10,200	2,070	2,990	2,260	2,030
10	2,060	2,080	2,990	3,640	2,400	3,000	2,790	9,520	2,050	4,880	2,250	2,140
11	2,120	2,100	2,620	3,350	2,490	2,800	2,600	9,750	2,070	5,960	2,260	2,150
12	2,130	2,100	2,450	3,050	2,530	2,610	2,460	8,720	2,040	6,020	2,240	2,160
13	2,130	2,130	2,670	2,740	2,480	2,390	2,420	9,080	2,050	5,560	2,250	2,120
14	2,180	2,140	3,240	2,840	2,430	2,740	2,470	9,970	2,110	3,670	2,220	2,130
15	2,150	2,340	5,810	3,010	2,440	2,670	3,890	10,600	2,140	3,000	2,170	2,110
16	2,170	2,770	6,010	2,790	2,480	2,510	4,510	11,000	2,070	2,400	2,190	2,110
17	2,070	3,130	6,230	1,950	2,470	3,250	4,410	10,900	2,260	2,260	2,300	2,090
18	2,050	2,870	7,050	1,940	2,380	3,710	4,850	10,400	2,680	2,250	2,360	2,160
19	2,060	2,240	6,470	2,030	2,370	3,170	5,030	9,460	4,800	2,290	2,230	2,120
20	2,110	2,210	6,220	1,860	2,480	2,910	4,750	7,280	4,520	2,160	2,180	2,130
21	2,090	2,260	8,520	2,560	2,480	2,680	4,690	5,440	3,420	2,080	2,190	2,190
22	2,090	2,340	13,300	2,880	2,500	2,660	5,650	4,190	2,820	2,180	2,190	2,290
23	2,090	2,340	10,200	2,920	2,590	2,450	8,580	5,810	2,380	2,240	2,210	2,120
24	2,190	2,440	9,380	2,870	2,590	2,560	11,300	10,500	2,320	2,280	2,200	2,080
25	2,100	2,540	8,730	2,000	2,610	2,550	9,430	11,800	2,390	2,200	2,230	2,090
26	2,140	2,320	8,860	1,930	2,510	2,520	8,290	12,400	2,520	2,240	2,230	2,150
27	2,120	2,370	9,680	2,510	2,420	2,560	7,060	11,600	2,500	2,250	2,250	2,140
28	2,090	2,330	9,990	3,560	2,390	2,550	6,860	10,200	2,330	2,280	2,460	2,120
29	2,140	2,470	9,410	3,230	------	2,530	7,880	8,040	2,230	2,200	2,300	2,200
30	2,460	2,420	8,990	2,670	------	2,570	9,440	6,570	2,280	2,180	2,240	2,340
31	2,520	------	8,640	2,400	------	2,590	------	7,820	------	2,230	2,110	------
TOTAL	66,160	70,010	180,150	111,630	68,810	85,920	150,690	306,950	81,820	85,770	69,220	64,220
MEAN	2,134	2,334	5,811	3,601	2,458	2,772	5,023	9,902	2,727	2,767	2,233	2,141
MAX	2,520	3,130	13,300	8,450	2,610	3,790	11,300	13,400	8,000	6,020	2,460	2,470
MIN	2,010	2,060	2,020	1,860	2,350	2,380	2,420	4,190	2,040	1,890	2,110	2,010
MEAN*	2,293	2,822	5,768	1,829	957	2,682	10,140	10,200	2,783	2,304	397	737
CFSM*	1.68	2.07	4.23	1.34	.70	1.97	7.44	7.48	2.04	1.69	.29	.54
IN. *	1.94	2.31	4.88	1.54	.73	2.27	8.30	8.62	2.28	1.95	.34	.60

CAL YR 1973 TOTAL 1,203,700 MEAN 3,298 MAX 13,300 MIN 1,860 MEAN* 3,561 CFSM* 2.61 IN * 35.45
WTR YR 1974 TOTAL 1,341,350 MEAN 3,675 MAX 13,400 MIN 1,860 MEAN* 3,593 CFSM* 2.64 IN * 35.76

* Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes.

01054200 Wild River at Gilead, Maine

(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, on left bank 20 ft (6 m) upstream from highway bridge on U.S. Route 2, 1,800 ft (550 m) upstream from mouth, and 0.4 mi (0.6 km) west of Gilead.

DRAINAGE AREA.--69.5 mi² (180 km²).

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 683.10 ft (208.209 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 176 ft³/s (4.984 m³/s), 34.39 in/yr (874 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,020 ft³/s (199 m³/s) Dec. 21 (gage height, 9.35 ft or 2.850 m); maximum gage height, 14.01 ft (4.270 m) Mar. 17 (backwater from ice); minimum discharge, 15 ft³/s (0.42 m³/s) Aug. 16, 17 (gage height, 2.13 ft or 0.649 m).
Period of record: Maximum discharge, 12,500 ft³/s (354 m³/s) Nov. 3, 1966 (gage height, 12.49 ft or 3.807 m); minimum, 7.6 ft³/s (0.22 m³/s) July 16, 1971 (gage height, 1.89 ft or 0.576 m).
Flood of Oct. 24, 1959 reached a stage of 15.6 ft (4.755 m), from floodmarks (discharge, 18,100 ft³/s or 513 m³/s).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses and water temperatures for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	------	[illegible]	[illegible]	------	[illegible]	------	[illegible]	------	[illegible]	[illegible]	------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CFSM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IN.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]
WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]

PEAK DISCHARGE (BASE, 1,500 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	-	-	[illegible]				

01054300 Ellis River at South Andover, Maine

LOCATION.--Lat 44°35'37", long 70°44'01", Oxford County, on left bank 100 ft (30 m) upstream from covered bridge, at South Andover.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.00 ft (188.976 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--11 years, 248 ft³/s (7.023 m³/s), 25.72 in/yr (653 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,450 ft³/s (126 m³/s) Dec. 22 (gage height, 17.86 ft or 5.444 m, from floodmarks); minimum, 30 ft³/s (0.85 m³/s) Oct. 2.
Period of record: Maximum discharge, 5,630 ft³/s (159 m³/s) Dec. 29, 1969 (gage height, 19.23 ft or 5.861 m); minimum, 14 ft³/s (0.40 m³/s) part or all of each day Sept. 19-22, 1966, Aug. 19-21, 1970, Sept. 28, 29, 1972.

REMARKS.--Records excellent except those for winter period and periods of no gage-height record, which are fair. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	314	211	357	210	150	144	550	330	238	69	113
2	31	604	175	312	200	149	142	620	340	242	65	93
3	34	442	158	287	180	137	155	500	270	173	60	95
4	216	365	145	250	170	137	348	470	230	196	60	382
5	391	258	149	230	165	245	672	460	200	640	80	327
6	458	206	327	210	155	503	1,330	400	170	563	69	195
7	270	168	321	195	150	534	787	380	150	372	59	147
8	182	147	232	185	145	737	696	470	140	273	53	115
9	140	136	230	175	140	476	515	450	120	242	51	98
10	117	118	920	170	135	312	408	420	110	420	47	88
11	103	97	477	160	130	259	365	600	110	333	45	85
12	92	101	433	160	125	217	326	980	100	238	43	83
13	86	99	356	155	120	190	352	900	96	186	40	76
14	77	90	534	155	120	170	372	1,100	90	153	40	71
15	73	108	2,960	150	115	158	870	720	90	138	35	67
16	68	307	1,250	150	115	135	900	540	100	119	35	61
17	65	357	801	150	110	1,200	701	440	840	106	36	58
18	61	230	2,320	150	110	1,700	868	370	1,200	93	163	57
19	58	186	1,480	145	110	820	1,040	320	775	86	100	59
20	57	173	1,050	145	110	520	892	270	692	96	135	59
21	57	145	1,050	145	115	360	883	240	360	86	83	93
22	57	138	3,400	200	125	312	1,500	220	287	76	62	173
23	56	131	1,900	270	143	260	1,700	380	230	68	55	131
24	53	127	1,100	273	206	245	2,000	880	195	62	52	100
25	51	142	900	230	210	237	1,500	840	191	58	51	88
26	50	202	680	280	177	211	1,120	780	176	56	44	87
27	50	166	610	230	158	182	867	560	245	52	45	87
28	48	180	720	320	151	167	720	470	193	52	193	83
29	45	202	695	280	------	160	625	400	180	56	137	109
30	170	267	676	250	------	169	580	350	150	62	173	210
31	620	------	580	230	------	161	------	320	------	77	160	------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	119	211	[illegible]	211	147	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	210	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CFSM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IN.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]
WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Note.--No gage-height record [illegible]

01054500 Androscoggin River at Rumford, Maine

LOCATION.--Lat 44°32'33", long 70°32'50", Oxford County, on left bank at upper powerplant of Rumford Falls Power Co. in Rumford, and 1.2 mi (1.9 km) upstream from Swift River.

DRAINAGE AREA.--2,067 mi² (5,354 km²).

PERIOD OF RECORD.--May 1892 to current year. Monthly discharge only October 1903 to September 1904, published in WSP 1301.

GAGE.--Nonrecording gages in pond above dam in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

AVERAGE DISCHARGE.--82 years, 3,705 ft³/s (105 m³/s), 24.34 in/yr (618 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum daily discharge, 34,200 ft³/s (969 m³/s) Dec. 22; minimum daily, 2,120 ft³/s (60.0 m³/s) Oct. 1.
Period of record: Maximum discharge, 74,000 ft³/s (2,096 m³/s) Mar. 20, 1936; minimum daily, 625 ft³/s (17.7 m³/s) Mar. 27, 1911.

REMARKS.--Discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (see p. 81) with final regulation at Errol Dam about 84 mi (135 km) upstream.

COOPERATION.--Records furnished by Rumford Falls Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,170	4,230	3,280	11,000	3,420	2,920	3,330	19,500	10,400	3,480	2,530	2,500
2	2,190	4,130	3,100	10,300	3,110	3,070	3,240	18,800	8,580	3,460	2,460	2,550
3	2,340	4,320	3,070	9,160	3,110	2,960	3,390	15,700	4,610	2,930	2,440	2,590
4	2,630	3,440	3,150	8,640	3,090	3,000	5,910	16,900	3,490	3,290	2,500	4,320
5	2,800	2,940	3,240	7,880	2,920	4,770	12,500	16,800	3,310	5,740	2,730	3,710
6	3,410	2,810	4,720	7,160	2,720	6,520	12,400	15,700	3,010	4,930	2,950	2,770
7	2,870	2,700	4,500	6,850	2,880	6,610	8,250	15,100	2,980	3,660	2,470	2,460
8	2,550	2,470	3,420	6,570	2,920	7,980	7,850	14,800	2,730	3,430	2,400	2,570
9	2,510	2,680	3,400	5,300	2,920	5,520	5,700	13,300	2,670	4,380	2,440	2,420
10	2,410	2,600	8,810	4,680	2,92[illegible]	4,620	4,330	13,900	2,630	4,910	2,390	2,400
11	2,380	2,590	4,120	4,200	2,850	3,660	3,900	14,900	2,630	7,500	2,390	2,480
12	2,410	2,590	4,200	3,710	2,920	3,330	3,450	13,700	2,460	7,240	2,340	2,490
13	2,400	2,440	3,440	3,220	2,970	2,700	3,750	18,700	2,500	6,570	2,310	2,440
14	2,420	2,420	14,500	3,250	2,810	3,100	6,360	16,300	2,480	5,100	2,340	2,480
15	2,440	2,910	14,380	3,410	2,660	3,560	10,400	19,200	2,450	3,700	2,310	2,380
16	2,390	4,800	9,050	3,770	2,720	3,440	10,200	19,000	2,730	3,360	2,300	2,360
17	2,420	5,010	11,900	3,200	2,760	11,500	8,350	16,600	8,940	2,920	2,540	2,360
18	2,200	3,920	19,200	2,370	2,770	8,760	10,300	13,600	8,080	2,780	3,120	2,370
19	2,270	3,370	8,780	2,460	2,700	9,160	10,600	17,500	7,120	2,960	2,440	2,390
20	2,310	2,750	7,050	2,440	2,760	6,070	8,920	10,700	6,720	2,880	2,490	2,370
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	-------	[illegible]	[illegible]	-------	[illegible]	-------	[illegible]	-------	[illegible]	[illegible]	-------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

* [illegible]

01055000 Swift River near Roxbury, Maine

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, on left bank 0.2 mi (0.3 km) downstream from Philbrick Brook, 2.1 mi (3.4 km) downstream from Roxbury, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--95.8 mi² (248 km²).

PERIOD OF RECORD.--June 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft (187.656 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 197 ft³/s (5.58 m³/s), 27.93 in/yr (709 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,000 ft³/s (312 m³/s) Dec. 21 (gage height, 10.58 ft or 3.225 m, from peak-stage indicator); minimum, 14 ft³/s (0.396 m³/s) Aug. 16 (gage height, 1.21 ft or 0.369 m).

Period of record: Maximum discharge, 16,800 ft³/s (476 m³/s) Oct. 24, 1959 (gage height, 12.87 ft or 3.923 m), from rating curve extended above 7,000 ft³/s (198 m³/s); minimum, 3.8 ft³/s (0.11 m³/s) Sept. 16, 17, 1948 (gage height, 0.93 ft or 0.283 m).

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 801: 1934 (M). WSP 1301: Drainage area. WSP 1301: 1937-38 (M), 1942 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	464	169	195	110	81	109	2,750	298	226	60	62
2	74	716	125	180	110	80	99	930	259	177	43	42
3	35	480	117	170	98	70	135	523	215	123	36	59
4	660	272	130	160	92	84	364	666	188	185	37	349
5	563	195	157	155	86	190	754	450	169	576	76	209
6	563	159	648	150	80	410	1,020	359	152	334	51	103
7	209	135	336	140	78	540	436	394	136	186	35	72
8	136	124	195	130	74	660	365	399	123	136	29	57
9	101	117	780	130	70	316	230	365	110	190	26	52
10	83	101	680	120	66	213	214	629	107	568	24	44
11	75	93	480	120	62	170	194	841	121	250	21	48
12	68	89	360	110	60	140	198	581	107	163	20	46
13	63	89	310	110	58	130	225	2,330	88	123	18	40
14	61	86	1,000	105	56	120	315	802	77	97	17	36
15	59	138	2,400	100	54	110	917	630	76	83	16	32
16	57	456	1,300	98	54	101	583	558	101	75	15	29
17	56	282	1,400	94	54	1,870	468	417	1,700	66	22	27
18	60	195	2,600	92	54	809	682	360	971	57	297	29
19	68	163	1,100	90	54	329	634	290	668	93	79	29
20	68	125	800	88	54	210	531	242	387	105	63	33
21	62	106	1,900	85	54	180	686	217	205	69	42	81
22	56	119	2,600	281	54	190	1,600	219	169	57	30	192
23	60	115	1,700	365	140	144	2,380	1,260	144	51	26	91
24	68	117	900	236	340	135	2,020	1,170	126	49	29	60
25	65	166	620	169	230	125	735	919	118	44	36	49
26	65	172	650	127	151	120	575	605	127	39	24	70
27	65	139	640	240	100	115	510	472	209	39	22	66
28	62	149	330	500	86	110	906	369	168	54	219	53
29	65	336	272	250	------	105	1,750	307	112	70	104	180
30	411	300	280	150	------	105	1,720	295	111	60	135	267
31	414	------	210	120	------	100	------	295	------	143	181	------
TOTAL	[illegible]	[illegible]	[illegible]	5,060	2,577	8,062	21,353	20,636	7,442	4,457	1,753	2,427
MEAN	150	202	[illegible]	163	92.0	260	712	666	248	144	56.5	80.9
MAX	660	716	[illegible]	500	340	1,870	2,380	2,750	1,700	576	297	349
MIN	35	86	117	85	54	70	99	217	76	39	15	27
CFSM	[illegible]	2.11	[illegible]	1.70	.96	2.71	7.43	6.95	2.59	1.50	.59	.84
IN.	[illegible]	2.35	[illegible]	1.96	1.00	3.13	8.29	8.01	2.89	1.73	.68	.94

CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX 3,730 MIN 17 CFSM [illegible] IN [illegible]
WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX 2,750 MIN 14 CFSM [illegible] IN [illegible]

PEAK DISCHARGE (BASE, 3,600 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
[illegible]	-	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	-	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12-21	-	10.58	11,000	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Note.--No gage-height record Dec. 9-28.

01055500 Nezinscot River at Turner Center, Maine

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, on left bank 500 ft (150 m) upstream from upper highway bridge at Turner Center, and 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--171 mi² (443 km²).

PERIOD OF RECORD.--August 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 276.29 ft (84.213 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--33 years, 301 ft³/s (8.524 m³/s), 23.90 in/yr (607 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,770 ft³/s (135 m³/s) Dec. 22 (gage height, 6.62 ft or 2.018 m); minimum, 31 ft³/s (0.88 m³/s) Aug. 17 (gage height, 1.16 ft or 0.354 m).
Period of record: Maximum discharge, 13,900 ft³/s (394 m³/s) Mar. 27, 1953 (gage height, 11.18 ft or 3.408 m); minimum, 5.6 ft³/s (0.16 m³/s) Aug. 29, 1956 (gage height, 0.72 ft or 0.219 m).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	859	291	540	400	230	367	699	435	232	96	88
2	54	933	226	480	370	240	437	809	445	194	82	72
3	59	771	210	440	330	230	434	652	363	168	70	72
4	106	556	213	400	300	240	684	618	306	225	68	280
5	175	420	507	370	270	360	1,010	605	260	539	116	358
6	254	334	634	340	230	680	1,880	508	226	588	131	246
7	253	271	471	310	210	831	1,630	488	198	502	96	184
8	206	229	481	290	200	1,050	1,170	616	175	340	76	147
9	173	207	1,190	270	190	884	942	602	161	262	65	106
10	151	186	1,180	260	175	560	664	555	145	530	56	84
11	139	164	816	245	170	430	616	885	141	496	51	82
12	131	150	600	235	160	340	597	779	138	332	47	84
13	124	145	540	230	155	300	668	1,280	127	236	43	76
14	120	146	1,700	225	150	250	742	1,480	115	180	40	68
15	114	153	4,300	220	145	220	1,410	1,030	117	165	36	58
16	110	286	1,950	210	145	220	2,010	737	127	227	33	51
17	104	419	2,300	210	140	1,710	1,550	593	806	172	33	46
18	98	336	4,500	205	140	2,900	1,250	499	1,730	132	47	43
19	92	256	2,000	200	140	1,700	1,140	421	1,230	118	70	41
20	90	199	1,300	200	150	963	938	358	730	130	60	42
21	98	185	2,100	200	175	625	772	389	545	120	52	56
22	105	180	4,360	330	220	527	706	285	418	105	46	122
23	97	179	3,090	430	420	544	772	467	366	95	41	126
24	89	185	1,670	400	430	474	1,760	1,010	285	90	43	93
25	85	238	1,300	340	350	448	2,050	1,130	226	81	48	75
26	83	234	826	310	300	390	1,470	866	236	74	46	68
27	81	231	867	290	260	348	1,070	780	375	70	41	69
28	77	381	1,010	640	260	301	860	653	385	69	38	66
29	75	455	980	600	------	255	787	527	295	76	44	78
30	386	373	760	520	------	256	638	458	249	84	107	232
31	868	------	620	450	------	283	------	429	------	84	107	------
TOTAL	4,677	9,661	42,990	10,390	6,585	18,831	30,890	21,147	11,371	6,728	1,940	3,213
MEAN	151	322	1,387	335	235	607	1,030	682	379	217	62.6	107
MAX	868	933	4,500	640	430	2,900	2,050	1,480	1,730	588	131	358
MIN	54	145	210	200	140	220	367	285	115	69	33	41
CFSM	.88	1.88	8.11	1.96	1.37	3.55	6.02	3.99	2.22	1.27	.37	.63
IN.	1.02	2.10	9.35	2.26	1.43	4.10	6.72	4.60	2.47	1.46	.42	.70

CAL YR 1973 TOTAL 195,960 MEAN 537 MAX 6,000 MIN 54 CFSM 3.14 IN 42.60
WTR YR 1974 TOTAL 168,311 MEAN 461 MAX 4,500 MIN 33 CFSM 2.70 IN 36.62

PEAK DISCHARGE (BASE, 1,700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	-	-	4,300	4-06	[illegible]	[illegible]	2,100
12-18	-	-	4,600	4-16	[illegible]	[illegible]	2,300
12-22	1800	6.62	4,770	4-25	[illegible]	[illegible]	2,350
3-18	[illegible]	[illegible]	3,100	5-14	[illegible]	[illegible]	1,800

01057000 Little Androscoggin River near South Paris, Maine

LOCATION.--Lat 44°17'08", long 70°32'16", Oxford County, on right bank 30 ft (9 m) upstream from Biscoe Falls, and 5 mi (8 km) upstream from South Paris.

DRAINAGE AREA.--76.2 mi² (197 km²).

PERIOD OF RECORD.--September 1913 to April 1924, October 1931 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.48 ft (120.238 m) above mean sea level. Prior to Apr. 30, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--53 years (1913-23, 1931-74), 139 ft³/s (3.934 m³/s), 24.77 in/yr (629 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,390 ft³/s (96.0 m³/s) Dec. 21 (gage height, 8.78 ft or 2.676 m); minimum, 6.0 ft³/s (0.17 m³/s) Aug. 16 (gage height, 1.60 ft or 0.488 m).
Period of record: Maximum discharge, 8,000 ft³/s (227 m³/s) Mar. 27, 1953 (gage height, 12.41 ft or 3.783 m), from rating curve extended above 2,800 ft³/s (79.3 m³/s), verified by computation of flow over dam at South Paris; minimum, 1 ft³/s (0.028 m³/s) Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

REMARKS.--Records excellent. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 1301: 1915-23 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	400	155	230	180	98	157	514	216	134	38	35
2	25	529	125	200	155	103	184	483	208	118	32	27
3	36	317	106	180	126	94	200	323	170	100	25	31
4	97	222	99	172	111	102	383	373	142	103	24	204
5	120	174	111	157	87	204	647	314	126	255	108	139
6	186	148	282	139	76	339	1,080	250	108	295	61	82
7	116	126	241	134	76	412	627	289	92	198	38	59
8	82	112	180	116	76	535	514	426	83	140	30	46
9	67	102	163	94	75	280	354	309	76	128	26	38
10	61	91	497	100	71	210	286	335	69	241	23	32
11	57	80	471	106	70	170	243	560	67	159	20	31
12	52	75	303	109	67	140	264	401	63	113	18	31
13	46	76	230	99	66	125	309	1,010	55	86	16	30
14	44	79	568	95	44	103	323	672	49	68	13	26
15	43	91	2,080	98	57	94	815	430	54	59	11	19
16	39	257	827	88	57	94	792	317	82	54	7.0	17
17	48	252	985	87	57	1,240	588	262	901	47	7.3	14
18	38	182	2,160	83	57	1,060	627	235	793	41	47	13
19	37	142	875	87	53	464	568	202	412	39	38	12
20	36	119	620	84	59	292	436	180	259	44	32	13
21	41	98	1,580	83	66	204	383	161	280	38	25	22
22	39	96	2,270	159	69	284	438	167	163	34	20	73
23	38	95	870	202	214	180	496	393	185	30	16	49
24	39	95	490	176	210	196	748	631	142	28	18	33
25	37	132	331	150	180	190	651	521	131	25	27	27
26	37	144	909	129	144	152	533	387	126	22	20	30
27	36	118	626	178	119	138	412	338	255	20	16	30
28	35	169	449	316	102	119	349	277	194	20	15	27
29	33	230	387	286	------	107	311	233	166	22	20	58
30	288	196	309	233	------	103	300	216	152	32	95	196
31	611	------	268	208	------	117	------	190	------	68	47	------
TOTAL	2,491	4,950	18,056	4,568	2,766	7,860	14,016	11,400	5,697	2,738	883.3	1,444
MEAN	80.4	165	582	147	98.8	254	467	368	190	88.3	28.5	48.1
MAX	611	529	2,270	316	216	1,240	1,080	1,010	901	295	108	204
MIN	25	75	99	83	53	94	157	161	49	20	7.0	12
CFSM	1.05	2.17	7.64	1.93	1.30	3.33	6.13	4.83	2.49	1.16	.37	.63
IN.	1.21	2.42	8.81	2.23	1.35	3.84	6.84	5.57	2.78	1.34	.43	.70

CAL YR 1973 TOTAL 93,570.0 MEAN 256 MAX 2,270 MIN 20 CFSM 3.36 IN 45.60
WTR YR 1974 TOTAL 77,846.3 MEAN 213 MAX 2,270 MIN 7.0 CFSM 2.80 IN 37.99

PEAK DISCHARGE (BASE, 1,800 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0600	7.85	1,900	3-17	1000	7.58	2,130
12-18	0300	8.16	1,900	3-18	1300	8.21	[illegible]
12-21	2400	8.78	3,390	6-17	1000	8.11	2,100

01058500 Little Androscoggin River near Auburn, Maine

LOCATION.--Lat 44°03'49", long 70°16'28", Androscoggin County, on right bank 100 ft (30 m) upstream from highway bridge at Littlefields, 3 mi (5 km) southwest of Auburn, and 4.6 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--328 mi² (850 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 215 ft (65.5 m), from topographic map.

AVERAGE DISCHARGE.--34 years, 568 ft³/s (16.09 m³/s), 23.52 in/yr (597 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 5,900 ft³/s (167 m³/s) Dec. 23 (gage height, 8.80 ft or 2.682 m); minimum daily, 103 ft³/s (2.92 m³/s) Aug. 17.
Period of record: Maximum discharge, 16,500 ft³/s (467 m³/s) Mar. 28, 1953 (gage height, 14.76 ft or 4.499 m); minimum daily, 14 ft³/s (0.40 m³/s) Oct. 14, 1949.
Maximum discharge known, 16,800 ft³/s (476 m³/s) Mar. 20, 1936, at mouth of river.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Thompson Lake (see p. 81), and several powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	1,120	568	1,520	1,070	538	820	1,340	827	701	168	307
2	159	1,170	483	1,340	1,000	577	879	1,460	836	617	167	290
3	159	1,100	413	1,320	851	574	899	1,480	775	581	158	234
4	196	886	371	1,130	705	592	1,100	1,380	729	496	149	483
5	269	695	366	1,040	619	739	1,410	1,320	700	565	152	636
6	371	559	650	1,070	557	960	2,160	1,230	613	646	209	596
7	415	465	847	997	523	1,200	2,500	1,160	514	682	224	461
8	382	401	796	993	476	1,460	2,230	1,200	447	620	188	372
9	326	355	689	985	428	1,460	1,870	1,250	386	566	162	307
10	283	316	1,270	851	372	1,240	1,570	1,220	343	896	148	261
11	251	280	1,460	766	355	996	1,390	1,400	288	911	137	229
12	230	252	1,400	763	366	851	1,340	1,480	288	791	129	211
13	220	239	1,160	776	339	717	1,400	1,890	280	665	122	199
14	211	235	1,470	633	336	674	1,440	2,110	261	511	116	189
15	198	242	2,790	522	312	586	1,970	2,070	245	512	110	187
16	191	321	3,660	555	302	682	2,440	1,700	265	675	105	186
17	185	477	3,970	545	291	2,410	2,510	1,410	1,140	384	103	162
18	179	556	5,250	542	286	2,960	2,180	1,160	1,850	331	106	153
19	173	516	5,270	542	277	2,910	1,980	1,020	2,030	296	106	171
20	156	468	4,530	529	340	2,060	1,820	935	1,620	273	109	173
21	142	382	3,980	563	608	1,530	1,610	831	1,360	251	115	180
22	128	367	5,050	646	981	1,270	1,460	756	1,130	235	118	232
23	120	357	5,630	772	900	1,130	1,450	853	962	221	114	270
24	118	360	4,240	877	870	1,100	2,090	1,310	795	202	115	336
25	116	360	3,660	861	950	1,090	2,490	1,680	710	180	113	386
26	116	356	2,160	751	787	1,000	2,390	1,650	726	166	116	357
27	111	360	2,020	826	666	879	2,090	1,510	866	157	119	295
28	108	437	2,120	1,130	583	786	1,760	1,290	656	153	128	266
29	106	576	2,070	1,330	-------	715	1,550	1,110	858	156	157	276
30	375	621	1,930	1,300	-------	671	1,370	973	761	199	250	387
31	603	-------	1,750	1,220	-------	727	-------	850	-------	163	280	-------
TOTAL	7,081	14,783	71,771	27,711	15,848	34,789	52,130	41,020	23,571	13,516	4,603	8,790
MEAN	228	493	2,315	894	566	1,122	1,738	1,323	786	436	148	293
MAX	603	1,170	5,630	1,520	1,070	2,960	2,510	2,110	2,030	911	280	636
MIN	106	235	366	522	277	538	820	756	245	153	103	153
MEAN*	236	515	2,350	901	587	1,172	1,775	1,337	830	388	93	260
CFSM*	.72	1.57	7.16	2.75	1.79	3.57	5.41	4.08	2.53	1.18	.28	.79
IN.*	.83	1.75	8.26	3.17	1.86	4.12	6.04	4.70	2.82	1.36	.33	.88

CAL YR 1973 TOTAL 376,680 MEAN 1,031 MAX 5,630 MIN 104 MEAN* 1,030 CFSM* 3.14 IN.* 42.64
WTR YR 1974 TOTAL 315,173 MEAN 863 MAX 5,630 MIN 103 MEAN* 871 CFSM* 2.66 IN.* 36.08

* Adjusted for change in contents in Thompson Lake.

01059000 Androscoggin River near Auburn, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, on right bank 1.5 mi (2.4 km) downstream from Little Androscoggin River and 2.1 mi (3.4 km) downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 mi² (8,436 km²).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft (33.278 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 6,104 ft³/s (172.9 m³/s), 25.45 in/yr (646 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 60,200 ft³/s (1,705 m³/s) Dec. 22 (gage height, 16.78 ft or 5.114 m); minimum daily, 567 ft³/s (16.1 m³/s) Aug. 4.

Period of record: Maximum discharge, 135,000 ft³/s (3,820 m³/s) Mar. 20, 1936 (gage height, 27.57 ft or 8.403 m), from rating curve extended above 76,000 ft³/s (2,150 m³/s) on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily, 340 ft³/s (9.63 m³/s) Sept. 28, 1941.

REMARKS.--Records excellent. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulation by Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, Auburn, and Thompson Lakes, and Gulf Island Pond (see p. 81) with major regulation at Errol Dam 136 mi (219 km) upstream. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: 1930, 1933-34. WSP 1301: 1932-36.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,020	11,900	6,650	16,800	8,550	5,550	6,330	24,300	14,200	5,430	4,610	634
2	3,260	10,700	4,700	15,700	7,310	5,230	7,500	27,500	14,500	5,960	4,690	1,430
3	3,070	11,600	5,150	13,800	4,000	3,930	7,420	26,800	12,300	6,650	3,700	4,730
4	4,000	8,490	4,980	13,300	5,870	5,070	7,750	22,200	8,540	5,940	567	5,600
5	4,440	6,990	5,060	12,100	6,350	5,570	12,100	22,700	7,610	6,320	3,530	6,560
6	4,900	5,870	7,080	9,020	6,350	8,700	26,900	21,700	6,890	10,300	4,050	6,770
7	4,850	5,620	9,240	9,520	5,740	11,600	20,800	20,500	6,480	8,540	4,110	5,790
8	4,180	5,560	7,840	8,770	5,670	13,900	16,100	20,800	5,860	7,180	4,090	3,420
9	4,710	5,660	7,060	7,580	5,240	13,600	14,400	19,800	5,700	6,580	4,050	3,970
10	4,590	4,380	11,800	7,000	2,730	10,300	11,400	18,500	4,960	8,450	2,800	4,330
11	4,090	1,900	16,700	6,970	4,790	7,900	9,630	21,000	5,170	11,100	719	4,260
12	4,180	3,430	11,700	7,100	5,310	7,570	9,410	21,400	5,250	10,200	3,340	3,940
13	2,480	4,400	9,010	7,250	5,440	7,290	9,610	26,800	4,800	9,820	3,830	3,780
14	753	4,620	9,790	5,570	5,240	5,790	10,200	28,400	4,790	8,500	3,470	2,570
15	3,320	4,360	31,700	5,960	5,140	5,600	15,300	26,400	4,710	7,580	3,340	850
16	3,070	5,260	31,800	6,750	5,020	5,310	22,500	21,000	2,240	6,970	3,130	3,280
17	3,090	6,700	30,600	6,810	3,490	14,700	19,600	20,500	8,240	4,330	2,260	4,020
18	3,850	7,810	30,500	6,790	4,660	30,000	16,800	18,800	21,700	5,850	705	4,200
19	3,800	6,760	33,000	6,650	4,610	19,100	18,800	17,900	16,700	5,620	3,460	4,060
20	2,500	6,560	30,000	3,020	4,440	17,800	17,000	16,000	13,000	4,210	4,000	3,720
21	1,230	4,440	31,800	5,020	4,550	10,500	15,100	13,400	11,300	1,530	4,000	2,560
22	3,000	4,060	51,000	5,520	4,670	8,140	16,000	11,700	9,090	4,960	3,950	1,960
23	3,860	4,560	53,000	5,610	4,000	7,930	22,300	11,800	7,090	4,450	3,970	3,410
24	3,400	4,020	36,000	7,100	4,040	7,980	32,000	28,200	7,240	5,000	2,510	4,120
25	3,700	2,720	36,100	7,440	5,730	7,860	36,300	26,200	7,020	4,750	1,770	4,220
26	3,760	5,110	28,400	7,000	6,260	7,480	27,000	23,600	5,870	4,850	3,960	4,220
27	2,330	4,560	23,000	6,620	6,030	7,220	22,400	22,700	6,700	3,550	4,400	3,580
28	1,140	5,030	25,200	7,630	5,800	7,070	19,400	20,500	8,200	1,840	4,550	2,280
29	3,180	4,150	23,700	10,400	------	6,220	19,000	18,500	7,630	3,210	4,700	1,040
30	5,210	6,760	20,700	10,900	------	6,200	22,600	15,500	6,200	3,960	5,810	4,560
31	11,700	------	18,600	9,860	------	5,880	------	13,600	------	4,240	3,270	------
TOTAL	114,763	181,710	660,160	250,950	160,730	281,690	560,250	633,650	250,770	190,110	107,851	102,936
MEAN	3,702	6,057	21,296	8,095	5,740	9,087	18,675	20,440	8,359	6,133	3,479	3,431
MAX	11,700	11,900	53,000	16,800	8,550	30,000	36,300	28,400	21,700	11,100	5,810	6,770
MIN	753	1,900	4,700	3,020	2,730	3,930	6,330	11,700	2,240	1,530	567	634
MEAN*	3,960	6,545	21,360	6,471	3,901	9,106	22,120	20,760	8,416	5,460	1,535	2,320
CFSM*	1.22	2.01	6.56	1.99	1.20	2.80	6.79	6.37	2.58	1.68	.47	.71
IN. *	1.41	2.24	7.56	2.29	1.25	3.23	7.58	7.34	2.88	1.94	.54	.79

CAL YR 1973 TOTAL 3,520,750 MEAN 9,646 MAX 53,000 MIN 753 MEAN* 9,911 CFSM* 3.04 IN.* 41.31
WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX 53,000 MIN 567 MEAN* 9,384 CFSM* 2.88 IN.* 39.11

* Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, Auburn, and Thompson Lakes and Gulf Island Pond.

Reservoirs in Androscoggin River basin

01050500 RANGELEY LAKE on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 ft³ (37,926,000 m³) in top 4.0 ft (1.22 m) of lake (top of flashboards). Gage-height record furnished by Union Water Power Co.

01051000 MOOSELOOKMEGUNTIC LAKE at Upper Dam, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 ft³ (237,000,000 m³) between gage heights 8.3 and 20.5 ft (2.53 and 6.25 m). Gage-height record furnished by Union Water Power Co.

01051500 UPPER AND LOWER RICHARDSON LAKES on Rapid River, at Middle Dam, Maine, used for power, has usable capacity of 5,691,500,000 ft³ (161,180,000 m³) between gage heights 3.0 and 20.5 ft (0.91 and 6.25 m). Gage-height record furnished by Union Water Power Co.

01052000 AZISCOHOS LAKE on Magalloway River, in Lincoln Township, 3 mi (5 km) east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 ft³ (271,700,000 m³) between elevations 1,490.0 and 1,535.0 ft (454.15 and 467.87 m). Elevation record furnished by Union Water Power Co.

01053000 UMBAGOG LAKE on Androscoggin River, at Errol Dam, 0.6 mi (1.0 km) northeast of Errol, N.H., used for power, has usable capacity of 3,080,160,000 ft³ (87,230,100 m³) between gage heights 5.5 and 15.0 ft (1.68 and 4.57 m). Gage-height record furnished by Union Water Power Co.

01056000 GULF ISLAND POND on Androscoggin River, 3 mi (5 km) upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,1000,000,000 ft³ (31,150,000 m³) in top 10 ft (3 m) of pond below elevation 262.0 ft (79.86 m). Elevation record furnished by Central Maine Power Co.

01056500 LAKE AUBURN on outlet stream to Androscoggin River, at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 ft³ (16,430,000 m³) between elevations 254.7 and 260.7 ft (77.63 and 79.46 m). Elevation record furnished by Auburn Water District.

01058000 THOMPSON LAKE on short outlet stream to Little Androscoggin River, at Oxford, Maine used for process water, has usable capacity of 950,000,000 ft³ (26,900,000 m³) between gage heights 95.0 and 100.0 ft (28.96 and 30.48 m). Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE	UMBAGOG LAKE
SEPT. 30, 1973	978	4,028	5,050	8,275	1,830
OCT. 31	559	3,858	4,937	9,086	2,148
NOV. 30	586	3,654	5,125	9,779	2,710
DEC. 31	1,256	4,232	3,696	9,826	2,729
JAN. 31, 1974	278	2,363	3,252	8,605	2,495
FEB. 28	0	1,565	3,160	6,716	1,920
MAR. 31	278	2,702	3,622	5,577	940
APR. 30	1,353	8,010	5,275	9,593	2,186
MAY 31	1,339	8,046	5,519	9,934	2,378
JUNE 30	1,339	8,010	5,614	9,794	2,573
JULY 31	1,339	7,902	5,425	9,484	1,939
AUG. 31	1,088	5,834	4,436	7,819	1,996
SEPT. 30	934	3,960	3,770	6,856	2,015

DATE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1973	2,351	463	1,419
OCT. 31	2,480	430	1,438
NOV. 30	2,399	452	1,495
DEC. 31	2,475	632	1,590
JAN. 31, 1974	2,479	300	1,609
FEB. 28	2,346	532	1,685
MAR. 31	2,441	616	1,818
APR. 30	2,482	616	1,913
MAY 31	2,504	592	1,931
JUNE 30	2,449	568	2,065
JULY 31	2,115	496	1,932
AUG. 31	2,035	419	1,799
SEPT. 30	2,470	310	1,685

Note.--Contents of Gulf Island Pond at 2400, Thompson Lake at 0800. Contents of all others at 0700 on first day of following month.

01059800 Collyer Brook near Gray, Maine

LOCATION.--43°55'03", long 70°19'02", Cumberland County, 50 ft (15 m) downstream from U.S. Highway 202, 2.4 mi (3.9 km) northeast of Gray, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--13.9 mi² (36.0 km²).

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (54.9 m), from topographic map.

AVERAGE DISCHARGE.--10 years, 27.0 ft³/s (0.765 m³/s), 26.38 in/yr (670 mm/yr).

EXTREMES.--Current year: Maximum discharge, 993 ft³/s (28.1 m³/s) Mar. 17 (gage height, 3.31 ft or 1.009 m); maximum gage height, 4.29 ft (1.308 m) Jan. 14 (backwater from ice); minimum discharge, 14 ft³/s (0.40 m³/s) Aug. 15-17, 22, 23 (gage height, 0.94 ft or 0.286 m).
Period of record: Maximum discharge, 1,220 ft³/s (34.6 m³/s) Dec. 27, 1969 (gage height, 3.48 ft or 1.061 m); maximum gage height, 4.30 ft (1.311 m) Feb. 14, 1972 (backwater from ice); minimum daily discharge, 6.4 ft³/s (0.18 m³/s) Jan. 29, 1966.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	45	23	45	41	32	49	62	34	26	19	18
2	18	46	20	42	35	34	46	46	33	25	17	18
3	19	31	19	40	31	32	49	42	30	24	19	21
4	25	26	18	37	29	38	64	43	29	37	19	54
5	25	23	21	35	28	51	65	41	27	48	18	26
6	24	22	43	34	27	45	77	38	26	31	17	21
7	19	21	28	32	27	47	51	40	25	26	17	21
8	19	21	23	31	26	49	47	41	24	24	17	21
9	19	20	46	30	26	39	44	37	24	27	17	20
10	18	20	96	29	26	36	42	44	23	37	17	19
11	18	19	47	28	26	32	41	51	23	25	17	19
12	18	18	39	27	26	34	47	44	23	23	17	18
13	18	18	31	27	25	32	57	103	22	22	16	17
14	18	19	201	26	25	27	59	50	22	21	16	19
15	18	19	188	25	25	26	123	42	22	23	16	18
16	18	19	55	25	25	31	74	39	35	23	15	17
17	18	21	121	24	25	552	53	37	142	21	16	17
18	18	20	343	24	25	105	68	35	63	21	16	17
19	17	19	142	23	27	57	65	33	42	23	16	17
20	17	17	144	23	33	46	43	31	36	23	15	17
21	20	17	363	23	68	43	42	31	35	21	16	20
22	20	17	228	38	137	49	42	31	32	20	15	24
23	19	17	71	43	297	41	44	46	30	19	16	17
24	19	18	58	40	73	50	115	57	28	20	17	17
25	19	21	91	36	49	52	78	61	26	19	16	17
26	19	20	43	36	44	42	49	45	42	19	16	17
27	19	19	86	57	36	40	45	42	47	19	16	17
28	19	28	145	81	31	37	44	37	36	20	16	16
29	19	29	82	65	------	34	42	35	30	21	26	24
30	118	27	60	53	------	34	41	33	29	21	29	23
31	68	------	50	48	------	55	------	32	------	21	21	------
TOTAL	737	677	2,921	1,122	1,183	1,826	1,659	1,360	1,038	750	561	607
MEAN	23.8	22.6	94.2	36.2	42.3	58.9	55.3	43.9	34.6	24.2	17.9	20.2
MAX	118	46	363	81	297	552	123	103	142	48	29	54
MIN	17	17	18	23	25	26	41	31	22	19	15	16
CFSM	1.71	1.63	6.78	2.60	3.04	4.24	3.98	3.16	2.49	1.74	1.29	1.45
IN.	1.97	1.81	7.82	3.00	3.17	4.89	4.44	3.64	2.78	2.01	1.48	1.62

CAL YR 1973 TOTAL 16,176 MEAN 44.3 MAX 480 MIN 13 CFSM 3.19 IN 43.10
WTR YR 1974 TOTAL 14,611 MEAN 40.0 MAX 552 MIN 15 CFSM 2.88 IN 39.07

PEAK DISCHARGE (BASE, 175 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	1715	2.28	211	12-28	1330	2.28	211
12-10	0815	2.25	201	2-23	2200	2.80	480
12-14	0945	3.00	650	3-17	1800	3.31	993
12-17	2200	3.23	822	6-17	1430	2.20	204
12-21	1700	3.16	810				

01060000 Royal River at Yarmouth, Maine

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, on right bank 150 ft (46 m) upstream from lower highway bridge, in Yarmouth.

DRAINAGE AREA.--142 mi² (368 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3.0 m), from topographic map.

AVERAGE IDSCHARGE.--25 years, 273 ft³/s (7.731 m³/s), 26.10 in/yr (663 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,100 ft³/s (144 m³/s) Dec. 18 (gage height, 5.80 ft or 1.768 m); minimum, 31 ft³/s (0.88 m³/s) Aug. 12, 13, 25 (gage height, 1.00 ft or 0.305 m).
Period of record: Maximum discharge, 7,960 ft³/s (225 m³/s) Sept. 12, 1954 (gage height, 7.12 ft or 2.170 m); minimum, 4.4 ft³/s (0.12 m³/s) Oct. 17, 18, 1962 (gage height, 0.71 ft or 0.216 m).

REMARKS.--Records excellent except those for winter period, which are fair. Some diurnal fluctuation at low flow caused by mill above station. Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	591	279	483	480	230	615	468	235	171	77	78
2	60	649	208	396	350	267	550	564	237	143	69	67
3	65	422	160	350	260	252	533	384	198	136	64	74
4	95	274	158	320	200	306	682	392	174	204	64	244
5	107	204	167	300	170	574	762	396	159	376	63	241
6	145	168	510	285	145	587	1,120	315	144	221	58	124
7	115	146	517	275	135	492	835	304	130	161	54	100
8	92	131	313	260	130	496	581	351	120	133	51	90
9	81	125	320	250	125	363	463	309	115	135	50	80
10	76	116	1,700	240	120	291	377	299	108	252	49	72
11	71	105	1,290	230	115	236	355	517	104	179	48	67
12	70	98	694	225	115	207	481	439	101	129	46	65
13	68	103	410	220	110	182	695	1,020	95	117	45	62
14	68	105	929	210	110	174	792	973	90	108	45	62
15	65	109	2,740	210	105	152	1,480	534	86	104	41	61
16	63	142	1,840	205	105	172	1,400	367	103	110	40	58
17	61	173	1,790	200	104	2,590	855	298	1,240	111	41	53
18	62	147	4,560	200	103	2,920	554	256	1,870	90	50	53
19	72	127	2,730	200	103	1,220	447	219	953	90	50	50
20	72	108	1,330	200	366	594	382	194	417	95	46	52
21	85	99	1,680	195	449	382	341	178	329	89	42	60
22	86	111	2,390	496	613	337	326	168	304	87	42	112
23	79	121	2,300	563	1,890	370	335	263	242	90	41	101
24	72	122	971	498	1,200	550	1,050	624	196	82	45	73
25	70	157	657	405	666	607	1,300	711	164	78	46	62
26	69	187	509	339	359	423	834	577	184	75	44	60
27	69	196	881	489	301	349	505	457	366	72	43	58
28	65	287	,480	1,170	227	293	392	378	359	73	42	58
29	66	583	,450	1,110	------	261	347	306	246	76	55	90
30	442	629	974	942	------	231	319	265	203	79	118	217
31	1,060	------	637	692	------	375	------	261	------	80	114	------
TOTAL	3,712	6,296	3,526	12,158	9,156	16,463	19,708	12,767	9,272	3,946	1,683	2,644
MEAN	120	210	,210	392	327	531	657	412	309	127	54.3	88.1
MAX	1,060	649	,560	1,170	1,890	2,920	1,680	1,020	1,870	376	118	244
MIN	60	98	158	195	103	152	319	168	86	72	40	50
CFSM	.85	1.48	8.52	2.76	2.30	3.74	4.63	2.90	2.18	.89	.38	.62
IN.	.97	1.65	9.83	3.19	2.40	4.31	5.16	3.34	2.43	1.03	.44	.69

CAL YR 1973 TOTAL 163,099 MEAN 447 MAX 6,880 MIN 55 CFSM 3.15 IN 42.76
WTR YR 1974 TOTAL 135,527 MEAN 371 MAX 4,560 MIN 40 CFSM 2.61 IN 35.45

PEAK DISCHARGE (BASE, 1,500 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1000	3.17	3780	3-17	2200	4.84	3,640
12-18	1600	5.80	5100	4-15	1300	3.48	1,680
12-28	2100	3.90	3770	6-18	1200	3.75	1,990
2-23	1800	3.70	3400				

01064000 Presumpscot River at outlet of Sebago Lake, Maine

LOCATION.--Lat 43°49'03", long 70°27'01", Cumberland County, at dam of hydroelectric plant at Eel Weir Falls, 1.0 mi (1.6 km) downstream from lake outlet.

DRAINAGE ARES.--436 mi² (1,129 km²).

PERIOD OF RECORD.--January 1887 to current year.

GAGES.--Nonrecording gages in forebay and tailrace of hydroelectric plant at Eel Weir Falls and at dam on outlet of Sebago Lake.

AVERAGE DISCHARGE.--87 years, 660 ft³/s (18.7 m³/s), 20.56 in/yr (522 mm/yr), unadjusted.

REMARKS.--Discharge computed from wheel ratings and from records of openings of two regulating gates at Eel Weir hydroelectric plant. Water wasted at rare intervals through gates in dam on outlet of Sebago Lake; flow computed from records of gate openings. Water diverted by Portland Water District and leakage through dam, totaling about 40 ft³/s (1.13 m³/s), not included in figures of daily discharge. Flow regulated by Long Pond and Sebago Lake, surface area 45.6 mi² (118 km²), which have a combined usable capacity of 11,000,000,000 ft³ (312,000,000 m³).

COOPERATION.--Records furnished by S. D. Warren Co.

REVISIONS (WATER YEARS).--WSP 261: Drainage area. WSP 1301: 1920-50 (adjusted monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	819	819	819	831	969	818	818	1,540	1,230	0	818	673
2	831	831	819	831	1,060	818	818	1,540	1,230	0	806	673
3	831	831	819	831	1,060	818	818	1,440	1,140	0	806	677
4	831	831	806	831	1,060	818	818	1,380	1,080	0	806	677
5	831	819	819	831	1,060	818	818	1,380	982	0	806	677
6	831	819	819	831	1,060	818	818	1,310	912	0	818	677
7	831	819	819	831	1,060	818	818	1,250	912	322	818	677
8	819	819	819	831	1,060	818	917	1,250	912	702	818	677
9	819	819	819	831	1,060	818	995	1,250	912	613	806	692
10	831	819	819	831	1,060	818	1,070	1,160	857	620	765	701
11	831	819	819	831	1,060	818	1,060	1,100	818	743	806	680
12	819	819	819	831	1,060	818	1,060	1,100	818	818	818	655
13	831	819	819	831	1,060	818	1,150	1,430	818	806	818	655
14	819	819	793	831	1,060	818	1,240	1,830	818	806	806	655
15	819	831	819	831	997	818	1,210	1,930	818	806	806	655
16	819	831	819	831	913	818	1,280	1,920	818	806	806	655
17	831	819	632	831	913	818	1,310	1,920	818	718	806	655
18	807	819	831	831	913	818	1,500	1,920	818	762	818	655
19	831	819	831	831	913	818	1,630	1,920	818	818	818	655
20	831	819	589	831	913	818	1,630	1,920	818	818	806	655
21	819	819	254	1,050	913	818	1,630	1,610	818	818	756	655
22	819	819	277	867	901	883	1,630	1,180	818	818	670	655
23	819	819	277	899	858	976	1,630	1,320	818	818	670	655
24	819	819	252	1,060	839	976	1,630	1,500	1,030	806	670	655
25	819	819	270	1,070	818	976	1,800	1,500	1,300	806	670	655
26	819	819	831	1,070	818	976	1,910	1,500	1,710	806	670	655
27	819	819	831	1,020	818	976	1,910	1,500	1,950	806	670	655
28	806	819	831	1,070	818	976	1,910	1,310	1,610	818	670	655
29	819	819	831	1,070	------	986	1,850	1,080	377	818	670	690
30	755	819	831	1,070	------	818	1,720	1,170	0	818	668	720
31	713	------	831	1,050	------	818	------	1,730	------	786	670	------
TOTAL	25,338	24,630	22,066	27,896	27,085	26,459	39,398	45,390	28,858	19,076	23,629	20,026
MEAN	817	821	712	900	967	854	1,313	1,464	962	615	762	668
MAX	831	831	831	1,070	1,060	976	1,910	1,930	1,950	818	818	720
MIN	713	819	252	831	818	818	818	1,080	0	0	668	655
MEAN*	173	541	2,209	1,308	898	1,205	1,949	1,384	958	251	20	302
CFSM*	.40	1.24	5.07	3.00	2.06	2.76	4.47	3.17	2.20	.58	.05	.69
IN. *	.46	1.38	5.84	3.46	2.14	3.18	4.99	3.66	2.45	.66	.05	.77

CAL YR 1973 TOTAL 337,969.00 MEAN 926 MAX 3,290 MIN 0 MEAN* 1,093 CFSM* 2.51 IN * 34.03
WTR YR 1974 TOTAL 329,869.00 MEAN 904 MAX 1,950 MIN 0 MEAN* 934 CFSM* 2.14 IN * 29.07

*Adjusted for change in contents in Long Pond and Sebago Lake, diversion by Portland Water District, and leakage through dam.

01064500 Saco River near Conway, N.H.

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, on left bank at Odell Falls, 1.8 mi (2.9 km) downstream from Swift River and Conway.

DRAINAGE AREA.--386 mi² (1,000 km²).

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft (127.464 m) above mean sea level. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--51 years (1903-9, 1929-74), 923 ft³/s (26.14 m³/s), 32.47 in/yr (825 mm/yr).

EXTREMES.--Current year: Maximum discharge, 26,900 ft³/s (762 m³/s) Dec. 21 (gage height, 13.06 ft or 3.981 m); minimum, 161 ft³/s (4.56 m³/s) Jan. 8 (gage height, 2.20 ft or 0.671 m).
Period of record: Maximum discharge, 43,900 ft³/s (1,240 m³/s) Mar. 27, 1953 (gage height, 17.20 ft or 5.243 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of slope-area measurement of peak flow; minimum, 40 ft³/s (1.13 m³/s) Mar. 16, 1932 (gage height, 1.61 ft or 0.491 m).

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1908-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	1,880	929	445	660	482	720	5,210	1,610	817	403	369
2	223	3,250	791	375	590	488	736	3,610	1,610	720	331	317
3	237	1,710	738	330	520	470	770	2,360	1,300	668	301	341
4	379	1,260	736	307	470	485	1,620	2,420	1,170	626	307	1,400
5	477	995	704	283	650	1,210	4,830	2,100	1,070	1,180	850	1,090
6	912	856	3,300	264	400	2,040	5,490	1,780	980	1,300	525	665
7	535	752	1,020	242	370	1,570	2,570	1,770	907	914	386	495
8	406	698	1,330	189	340	2,570	2,300	1,770	836	766	329	421
9	356	650	1,180	177	320	1,450	1,880	1,630	781	726	299	369
10	326	580	3,640	179	300	1,180	1,600	1,960	739	866	286	336
11	317	527	2,280	179	290	925	1,400	3,110	697	753	272	316
12	300	512	1,640	179	280	740	1,370	2,300	665	610	256	309
13	283	503	1,290	177	270	620	1,370	6,330	618	561	266	301
14	275	497	2,880	175	265	560	1,370	3,740	587	690	232	303
15	270	500	5,500	175	260	520	4,200	3,000	563	607	219	279
16	260	1,530	2,490	170	260	510	3,760	2,870	549	515	211	259
17	275	1,420	3,900	170	260	4,490	2,470	2,260	3,490	654	218	245
18	268	914	7,780	170	260	3,170	3,110	2,090	4,120	611	560	237
19	253	758	3,290	170	260	1,720	3,290	1,490	1,850	397	385	233
20	257	674	2,580	170	270	1,360	2,450	1,460	1,310	507	289	244
21	259	622	13,100	170	280	1,060	2,520	1,310	1,190	470	252	280
22	266	620	9,000	400	320	1,040	3,850	1,210	999	366	230	582
23	268	614	2,270	1,060	770	1,080	6,390	2,290	862	366	217	471
24	262	596	1,250	979	970	1,070	7,360	3,480	799	368	220	355
25	260	776	845	794	680	1,060	3,050	2,480	765	353	238	312
26	260	900	977	636	601	966	3,060	2,480	867	327	226	305
27	261	720	1,610	808	586	865	2,630	2,330	1,310	308	204	300
28	256	939	1,230	1,630	491	760	2,580	1,910	1,050	308	203	266
29	269	1,400	864	1,080	------	687	4,070	1,660	851	428	276	400
30	2,910	1,160	605	857	------	725	4,520	1,580	963	404	430	1,080
31	3,930	------	517	773	------	700	------	1,630	------	460	520	------
TOTAL	15,931	28,865	82,350	13,805	11,816	36,491	88,166	75,800	35,008	17,797	10,104	12,978
MEAN	514	962	2,656	445	422	1,177	2,939	2,445	1,167	574	326	433
MAX	3,930	3,250	13,100	1,630	970	4,490	7,360	6,330	4,120	1,300	850	1,400
MIN	223	497	517	170	260	470	720	1,210	549	308	203	233
CFSM	1.33	2.49	6.88	1.15	1.09	3.05	7.61	6.33	3.02	1.49	.84	1.12
IN.	1.54	2.78	7.94	1.33	1.14	3.52	8.50	7.31	3.37	1.72	.97	1.25

CAL YR 1973 TOTAL 595,758 MEAN 1,632 MAX 18,000 MIN 210 CFSM 4.23 IN 57.53
WTR YR 1974 TOTAL 429,111 MEAN 1,176 MAX 13,100 MIN 170 CFSM 3.05 IN 41.37

PEAK DISCHARGE (BASE, 8,700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	2200	8.53	10,400	12-21	2300	13.06	26,900
12-16	2400	7.99	8,700	4-24	0000	8.58	9,830
12-18	0300	8.90	11,300	6-18	1000	8.52	9,600

01065000 Ossipee River at Effingham Falls, N.H.

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, on left bank 0.3 mi (0.5 km) upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi (0.5 km) downstream from outlet of Ossipee Lake, and 4 mi (6 km) northwest of Effingham.

DRAINAGE AREA.--330 mi² (855 km²).

PERIOD OF RECORD.--September 1942 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m) from topographic map.

AVERAGE DISCHARGE.--32 years, 690 ft³/s (19.54 m³/s), 28.39 in/yr (721 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,080 ft³/s (116 m³/s) Dec. 23 (gage height, 8.42 ft or 2.566 m from peak-stage indicator); minimum 195 ft³/s (5.52 m³/s) Oct. 12; minimum daily, 196 ft³/s (5.55 m³/s) Oct. 17-19, 21-23.

Period of record: Maximum discharge, 11,700 ft³/s (331 m³/s) Mar. 28, 1953 (gage height, 11.64 ft or 3.548 m); minim, about 5 ft³/s (0.14 m³/s) during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 10, 1944.

REMARKS.--Records excellent except those for period of no gage-height record which are fair. Flow regulated by Ossipee and Silver Lakes and Pine River Pond (combined capacity, 1,430,000,000 ft³ or 40,500,000 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	477	257	1,080	2,000	1,120	716	797	1,010	976	427	206	200
2	467	345	1,040	1,700	1,040	727	782	854	971	418	206	200
3	456	534	1,010	1,400	985	705	785	1,120	884	415	206	240
4	450	541	981	1,270	930	694	828	1,260	498	411	208	462
5	398	655	925	1,210	872	692	1,000	1,230	451	429	212	756
6	370	766	921	1,130	811	738	1,470	1,110	421	459	209	747
7	370	675	962	1,070	774	834	1,840	1,130	425	473	208	734
8	367	516	981	1,010	737	1,010	1,900	1,180	429	539	208	724
9	364	463	976	925	704	1,140	1,880	1,150	431	570	206	580
10	362	411	1,100	868	671	1,170	1,800	1,060	427	616	206	485
11	356	407	1,220	753	647	1,110	1,670	1,050	425	632	206	479
12	264	314	1,250	673	632	1,040	1,550	1,120	421	556	204	476
13	198	214	1,200	657	602	975	1,470	1,360	416	507	204	345
14	198	216	1,400	643	563	905	1,440	1,600	365	543	203	253
15	198	216	1,600	643	560	852	1,600	1,640	296	496	202	253
16	198	223	2,500	643	538	817	2,000	1,590	301	328	202	251
17	196	229	2,700	631	523	906	2,160	1,810	705	200	201	250
18	196	234	3,300	604	510	1,170	2,150	2,220	1,040	200	201	249
19	196	242	3,100	600	494	1,350	2,080	1,670	1,050	200	201	248
20	199	253	2,900	589	499	1,360	1,970	1,480	1,020	200	200	248
21	196	262	2,900	565	590	1,300	1,830	1,240	877	200	200	249
22	196	269	3,600	619	642	1,240	1,710	946	779	200	200	254
23	196	312	3,900	663	672	1,150	1,510	829	762	201	200	255
24	198	337	3,500	720	697	1,100	1,520	897	480	202	200	254
25	198	365	3,000	753	721	1,070	1,650	905	276	202	198	251
26	198	471	2,700	757	726	1,020	1,680	1,050	276	202	198	263
27	200	576	2,800	786	735	960	1,610	1,110	277	202	198	366
28	200	635	2,900	930	680	932	1,520	1,290	358	203	197	455
29	202	896	2,700	1,120	------	862	1,350	1,270	414	204	198	442
30	200	1,090	2,500	1,140	------	830	1,250	1,220	421	204	198	515
31	231	------	2,300	1,140	------	812	------	1,160	------	205	200	------
TOTAL	8,502	12,966	63,946	28,232	19,666	30,263	46,812	38,441	16,656	10,835	6,267	11,493
MEAN	274	432	2,063	911	702	976	1,560	1,240	555	349	202	383
MAX	477	1,090	3,900	2,000	1,120	1,360	2,160	2,220	1,050	632	212	756
MIN	196	214	921	565	494	692	782	829	276	200	197	200

CAL YR 1973 TOTAL 382,714 MEAN 1,049 MAX 5,150 MIN 196 CFSM 3.18 IN 43.14
WTR YR 1974 TOTAL 293,874 MEAN 805 MAX 3,900 MIN 196 CFSM 2.44 IN 33.14

Note.--No gage-height record Dec. 13 to Jan. 3.

01065500 Ossipee River at Cornish, Maine

LOCATION.--Lat 43°48'26", long 70°47'55", Oxford County, on left bank 100 ft (30 m) downstream from highway bridge in Cornish, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--453 mi^2 (1,173 km^2).

PERIOD OF RECORD.--July 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 276.1 ft (84.16 m) above mean sea level. Prior to Aug. 21, 1929, nonrecording gage and Aug. 21, 1929, to Sept. 30, 1942, water-stage recorder at same site and datum 1 ft (0.3 m) higher.

AVERAGE DISCHARGE.--58 years, 871 ft^3/s (24.67 m^3/s), 26.13 in/yr (664 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,990 ft^3/s (141 m^3/s) Dec. 23 (gage height, 7.60 ft or 2.316 m); minimum daily, 214 ft^3/s (6.06 m^3/s) Aug. 26, 27.

Period of record: Maximum discharge, 17,200 ft^3/s (487 m^3/s) Mar. 21, 1936 (gage height, 16.32 ft or 4.974 m, present datum), from rating curve extended above 7,500 ft^3/s (212 m^3/s); minimum daily, 65 ft^3/s (1.84 m^3/s) Sept. 8, 1929.

REMARKS.--Records excellent except those for winter period, which are fair. Flow partly regulated by mill at Kezar Falls and by Ossipee and Silver Lakes, and Pine River, Bickford, and Colcord Ponds (combined capacity, 1,600,000,000 ft^3 or 45,300,000 m^3).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1927-29 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	517	527	1,240	2,640	1,500	882	1,120	1,750	1,250	531	251	245
2	509	620	1,170	2,320	1,450	949	1,140	1,350	1,220	516	245	244
3	509	716	1,130	1,970	1,350	907	1,170	1,380	1,080	518	242	266
4	511	678	1,090	1,740	1,250	910	1,360	1,740	711	536	242	506
5	513	695	1,080	1,600	1,200	1,040	1,630	1,700	672	643	246	838
6	472	858	1,300	1,500	1,100	1,160	2,430	1,570	601	622	242	814
7	460	826	1,240	1,450	1,050	1,290	2,520	1,480	588	594	237	789
8	428	615	1,170	1,350	990	1,540	2,620	1,600	580	600	236	771
9	421	580	1,190	1,300	940	1,550	2,540	1,520	566	665	233	710
10	410	495	1,630	1,200	890	1,530	2,400	1,550	550	662	232	533
11	397	481	1,680	1,150	840	1,450	2,240	1,680	540	701	230	520
12	372	455	1,580	1,100	810	1,340	2,120	1,610	535	658	228	513
13	300	297	1,480	1,060	780	1,230	2,120	2,190	500	570	226	477
14	290	286	1,850	1,030	760	1,140	2,120	2,290	475	556	224	310
15	275	287	2,820	990	740	1,070	2,780	2,200	450	553	223	289
16	233	319	3,080	960	720	1,040	2,870	2,090	450	514	221	284
17	233	335	3,440	950	700	1,200	2,890	1,990	800	278	224	278
18	233	329	4,480	930	680	1,450	2,840	2,660	1,280	250	231	278
19	232	322	3,960	920	660	1,800	2,730	2,370	1,300	247	225	276
20	228	323	3,580	915	660	1,890	2,570	1,990	1,210	248	222	279
21	241	325	3,560	910	700	1,770	2,390	1,590	1,090	242	218	295
22	238	336	4,620	920	750	1,680	2,230	1,350	919	243	218	344
23	228	352	4,970	960	840	1,560	2,080	1,210	886	242	218	310
24	235	410	4,580	1,000	900	1,510	2,340	1,390	774	244	221	297
25	234	453	3,910	1,050	950	1,490	2,380	1,580	404	240	217	288
26	229	496	3,360	1,100	960	1,380	2,270	1,520	405	238	214	284
27	235	659	3,470	1,150	917	1,310	2,160	1,540	442	237	214	302
28	233	740	3,540	1,300	882	1,230	2,040	1,580	437	241	215	480
29	231	980	3,410	1,430	------	1,140	1,870	1,660	525	276	254	510
30	466	1,220	3,170	1,530	------	1,090	1,670	1,580	541	264	310	559
31	630	------	2,890	1,530	------	1,090	------	1,450	------	259	268	------
TOTAL	10,723	16,015	81,670	39,955	25,969	40,618	65,640	53,160	21,781	13,188	7,227	12,889
MEAN	346	534	2,635	1,289	927	1,310	2,188	1,715	726	425	233	430
MAX	630	1,220	4,970	2,640	1,500	1,890	2,890	2,660	1,300	701	310	838
MIN	228	286	1,080	910	660	882	1,120	1,210	404	237	214	244

CAL YR 1973 TOTAL 514,139 MEAN 1,409 MAX 5,880 MIN 198 CFSM 3.11 IN 42.22
WTR YR 1974 TOTAL 388,835 MEAN 1,065 MAX 4,970 MIN 214 CFSM 2.35 IN 31.93

01066000 Saco River at Cornish, Maine

LOCATION.--Lat 43°48'35", long 70°46'53", Cumberland County, on left bank 300 ft (90 m) upstream from highway bridge at Cornish, and 0.4 mi (0.6 km) downstream from Ossipee River.

DRAINAGE AREA.--1,298 mi² (3,362 km²).

PERIOD OF RECORD.--June 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft (80.309 m) above mean sea level. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

AVERAGE DISCHARGE.--58 years, 2,695 ft³/s (76.32 m³/s), 28.20 in/yr (716 mm/yr).

EXTREMES.--Current year: Maximum discharge, 20,000 ft³/s (566 m³/s) Dec. 24 (gage height, 12.31 ft or 3.752 m); minimum daily, 582 ft³/s (10.5 m³/s) Aug. 26.
Period of record: Maximum discharge, 45,000 ft³/s (1,270 m³/s) Mar. 21, 22, 1936 (gage height, 21.90 ft or 6.675 m, from floodmarks); minimum daily, 245 ft³/s (6.94 m³/s) Oct. 18, 1957.

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds (combined capacity, 3,400,000,000 ft³ or 96,000,000 m³). Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1917-18 (M), 1936 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,170	2,910	3,040	9,160	4,520	2,440	3,370	7,510	4,770	2,500	860	931
2	1,170	3,060	3,000	8,020	4,870	2,470	3,380	7,110	4,590	2,450	860	911
3	1,150	3,350	2,920	6,930	4,690	2,380	3,380	7,160	4,330	2,400	860	925
4	1,100	3,460	2,810	6,080	4,200	2,300	3,700	7,600	3,760	2,450	850	1,450
5	1,150	3,530	2,750	5,630	3,880	2,580	4,300	7,290	3,580	2,450	840	2,050
6	1,200	3,480	3,180	5,620	3,630	2,900	5,820	6,730	3,260	2,400	850	2,210
7	1,250	3,260	3,360	5,210	3,080	3,470	6,150	6,280	3,100	2,400	880	2,130
8	1,300	2,890	3,540	4,640	3,110	4,050	6,850	6,070	2,940	2,400	980	2,060
9	1,350	2,580	3,690	3,980	3,060	4,200	7,210	5,590	2,780	2,350	940	1,820
10	1,300	2,350	4,520	3,450	2,980	4,320	7,230	5,470	2,540	2,350	896	1,530
11	1,250	2,170	4,580	2,950	2,810	4,220	6,850	5,600	2,440	2,300	850	1,440
12	1,150	1,950	4,630	2,800	2,610	4,000	6,450	5,450	2,310	2,150	820	1,350
13	1,050	1,690	4,620	2,400	2,550	3,720	6,270	6,570	2,180	2,000	793	1,260
14	900	1,590	5,400	2,600	2,320	3,370	6,140	6,870	1,990	1,800	713	1,060
15	980	1,530	7,090	2,800	2,380	3,210	7,100	7,170	1,860	1,650	740	986
16	919	1,560	7,540	3,100	2,110	3,110	7,280	7,470	1,830	1,500	726	946
17	896	1,710	9,060	2,850	1,760	5,330	7,470	7,510	2,550	1,350	695	904
18	880	1,970	11,500	2,650	2,070	5,310	7,790	8,110	3,260	1,250	701	877
19	858	2,040	11,400	2,600	2,270	5,350	7,850	7,550	3,890	1,150	657	857
20	840	2,030	11,900	2,600	2,210	5,570	7,790	6,760	4,070	1,000	754	824
21	851	1,940	12,100	2,550	2,190	5,630	7,660	5,890	4,040	1,040	801	818
22	854	1,860	13,400	2,650	2,300	5,520	7,440	5,230	4,000	1,050	644	959
23	843	1,750	17,500	2,900	2,730	5,170	7,200	4,880	3,800	1,000	781	960
24	854	1,770	19,900	3,000	2,720	4,930	7,980	4,940	3,400	960	690	1,040
25	880	1,810	18,600	3,150	2,670	4,690	8,540	5,280	3,100	920	629	969
26	882	1,840	15,600	3,200	2,650	4,420	9,320	5,340	2,800	900	582	945
27	867	2,070	14,000	3,500	2,570	4,160	9,470	5,510	2,700	890	625	939
28	858	2,250	12,900	3,850	2,440	3,930	9,000	5,630	2,650	880	644	1,130
29	826	2,670	11,900	4,100	------	3,650	8,260	5,660	2,600	880	768	1,160
30	1,140	2,950	11,000	4,280	------	3,470	7,540	5,450	2,550	880	896	1,310
31	2,160	------	10,100	4,340	------	3,390	------	5,090	------	860	807	------
TOTAL	32,878	70,020	267,530	123,590	81,380	123,260	204,790	194,770	93,670	50,560	24,132	36,751
MEAN	1,061	2,334	8,630	3,987	2,906	3,976	6,826	6,283	3,122	1,631	778	1,225
MAX	2,160	3,530	19,900	9,160	4,870	5,630	9,470	8,110	4,770	2,500	980	2,210
MIN	826	1,530	2,750	2,400	1,760	2,300	3,370	4,880	1,830	860	582	818

CAL YR 1973 TOTAL 1,653,474 MEAN 4,530 MAX 19,900 MIN 826 CFSM 3.49 IN 47.39
WTR YR 1974 TOTAL 1,303,331 MEAN 3,571 MAX 19,900 MIN 582 CFSM 2.75 IN 37.35

Note.--No gage-height record June 22 to Aug. 7.

01066500 Little Ossipee River near South Limington, Maine

LOCATION.--Lat 43°41'22", long 70°40'15", York County, on right bank 25 ft (8 m) upstream from highway bridge, 2 mi (3 km) southeast of South Limington, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--161 mi² (417 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (79.2 m), from topographic map.

AVERAGE DISCHARGE.--34 years, 292 ft³/s (8.269 m³/s), 24.63 in/yr (626 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,810 ft³/s (51.3 m³/s) Dec. 18 (gage height, 4.53 ft or 1.381 m); minimum daily, 7.9 ft³/s (0.224 m³/s) Sept. 19.
Period of record: Maximum discharge, 5,300 ft³/s (150 m³/s) May 10, 1954 (gage height, 6.78 ft or 2.067 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Oct. 7, 1965.
Maximum discharge known, 8,530 ft³/s (242 m³/s) Mar. 19, 1936, at "Ledgemere" dam 3.6 mi (5.8 km) upstream.

REMARKS.--Records excellent. Flow regulated by Little Ossipee Lake, Ledgemere and Balch Ponds (combined capacity, 581,000,000 ft³ or 16,450,000 m³). Records of chemical analyses for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	205	208	804	632	391	503	326	273	164	68	64
2	199	238	201	720	675	386	566	359	306	152	65	66
3	185	311	191	636	522	376	621	468	350	156	62	69
4	167	305	181	587	479	362	681	536	371	157	59	204
5	150	315	171	528	429	381	792	509	288	179	56	442
6	151	328	185	478	386	438	1,010	487	216	179	48	373
7	149	331	205	455	356	471	972	483	201	169	46	272
8	141	344	210	404	387	504	786	483	148	183	44	267
9	132	335	213	429	315	537	685	477	154	209	43	261
10	122	324	174	333	387	498	626	485	185	206	43	256
11	114	312	35	473	278	456	576	588	210	202	84	226
12	92	297	112	472	297	441	584	659	163	139	101	180
13	75	274	238	637	266	425	650	856	115	28	94	123
14	80	247	340	829	260	407	749	959	114	26	86	15
15	84	221	799	413	340	389	959	837	113	26	77	11
16	87	201	876	382	308	376	1,170	714	123	29	60	10
17	88	184	876	638	229	680	1,040	634	371	38	48	9.3
18	90	167	1,620	895	226	1,440	809	610	535	48	49	8.7
19	114	153	1,640	532	265	1,210	645	594	397	54	44	7.9
20	151	139	1,180	393	229	841	551	522	290	57	39	8.0
21	153	127	1,020	344	258	665	498	433	282	59	36	9.1
22	153	124	1,550	354	288	602	362	233	261	60	35	12
23	153	122	1,510	373	420	560	50	43	235	56	35	93
24	153	121	1,140	386	519	548	107	51	187	55	39	247
25	154	128	823	389	540	573	127	237	136	56	37	244
26	155	139	699	389	514	562	383	392	157	55	140	241
27	153	143	818	401	460	515	585	455	220	55	277	235
28	153	153	1,150	606	415	479	528	609	216	55	220	229
29	153	171	1,280	900	------	311	426	621	161	65	172	228
30	184	190	1,110	810	------	276	316	501	167	66	130	224
31	197	------	921	734	------	403	------	370	------	69	67	------
TOTAL	4,342	6,649	21,676	16,624	10,680	16,503	18,357	15,531	6,945	3,052	2,404	4,635.0
MEAN	140	222	699	536	381	532	612	501	232	98.5	77.5	155
MAX	210	344	1,640	895	675	1,440	1,170	959	535	209	277	442
MIN	75	121	35	333	226	276	50	43	113	26	35	7.9

CAL YR 1973 TOTAL 154,311.0 MEAN 423 MAX 2,540 MIN 28 CFSM 2.63 IN 35.65
WTR YR 1974 TOTAL 127,398.0 MEAN 349 MAX 1,640 MIN 7.9 CFSM 2.17 IN 29.44

01069500 Mousam River near West Kennebunk, Maine

LOCATION.--Lat 43°25'04", long 70°39'32", York County, on right bank 100 ft (30 m) upstream from highway bridge, 1.4 mi (2.3 km) downstream from Middle Branch, and 4.0 mi (6.4 km) west of West Kennebunk.

DRAINAGE AREA.--105 mi^2 (272 km^2).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (52 m) from topographic map.

AVERAGE DISCHARGE.--35 years, 179 ft^3/s (5.069 m^3/s), 23.15 in/yr (588 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,230 ft^3/s (34.8 m^3/s) Dec. 18 (gage height, 3.29 ft or 1.003 m); minimum daily, 9.0 ft^3/s (0.25 m^3/s) Oct. 16.

Period of record: Maximum discharge, 2,830 ft^3/s (80.1 m^3/s) Sept. 12, 1954 (gage height, 5.69 ft or 1.734 m); minimum daily, 0.4 ft^3/s (0.011 m^3/s) Nov. 10, 15, 16, 1964.

REMARKS.--Records excellent. Flow regulated by Square Pond and Mousam and Estes Lakes (combined capacity, about 700,000,000 ft^3 or 20,000,000 m^3) and powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	209	15	478	424	216	370	364	233	149	31	46
2	129	272	15	436	360	215	364	329	191	118	25	43
3	132	234	123	396	313	210	385	279	159	87	26	58
4	183	197	72	383	288	205	402	295	143	84	26	98
5	168	180	15	351	294	223	415	266	135	121	25	63
6	157	180	27	335	241	268	478	240	120	102	19	53
7	157	179	107	319	236	262	431	261	110	86	18	57
8	60	177	109	307	225	258	379	320	104	76	17	54
9	9.7	121	138	276	220	238	364	292	104	66	16	51
10	10	14	291	286	203	175	343	393	91	57	22	46
11	71	14	244	299	201	222	324	566	83	43	24	44
12	9.7	121	189	293	201	209	339	544	70	45	22	34
13	10	177	157	266	199	205	381	697	64	60	21	28
14	10	176	267	268	198	205	416	630	58	34	23	27
15	70	66	567	290	198	205	568	529	55	32	20	21
16	9.0	15	378	288	196	206	525	467	101	44	21	32
17	20	15	527	265	187	463	409	428	305	44	27	30
18	9.7	15	1,020	253	177	690	384	389	291	38	37	34
19	9.7	42	535	278	163	499	319	356	216	41	33	31
20	9.7	14	420	262	183	410	302	334	179	41	30	33
21	15	118	503	243	198	383	294	316	150	37	31	52
22	51	106	797	316	202	380	268	307	128	39	35	72
23	149	124	590	342	255	357	267	290	112	33	38	56
24	156	76	541	338	407	380	495	292	118	29	46	39
25	156	115	466	317	320	372	470	299	153	27	45	32
26	58	176	444	296	270	335	392	293	180	27	38	40
27	117	69	623	383	237	311	342	291	182	27	38	40
28	158	123	754	548	222	279	309	272	163	27	38	38
29	61	176	729	571	------	255	285	247	160	29	46	64
30	101	68	602	523	------	246	264	237	155	30	56	120
31	88	------	524	464	------	309	------	224	------	31	50	------
TOTAL	2,468.5	3,569	11,789	10,670	6,818	9,191	11,284	11,047	4,313	1,704	944	1,436
MEAN	79.6	119	380	344	244	296	376	356	144	55.0	30.5	47.9
MAX	183	272	1,020	571	424	690	568	697	305	149	56	120
MIN	9.0	14	15	243	163	175	264	224	55	27	16	21
MEAN*	57.6	124	467	267	234	354	412	332	142	41.0	16.5	33.9
CFSM*	.55	1.18	4.45	2.54	2.23	3.37	3.92	3.16	1.35	.39	.16	.32
IN. *	.63	1.32	5.13	2.93	2.32	3.88	4.37	3.64	1.51	.45	.18	.36

CAL YR 1973 TOTAL 91,429.5 MEAN 250 MAX 1,690 MIN 9.0 MEAN* 254 CFSM* 2.42 IN * 32.90
WTR YR 1974 TOTAL 75,233.5 MEAN 206 MAX 1,020 MIN 9.0 MEAN* 205 CFSM* 1.95 IN * 26.72

* Adjusted for change in contents in Square Pond and Mousam Lake. Records furnished by Town of Sanford.

PISCATAQUA RIVER BASIN

01072100 Salmon Falls River at Milton, N.H.

LOCATION.--Lat 43°24'50", long 70°59'15", Strafford County, on right bank just downstream from Milton Pond, at Milton.

DRAINAGE AREA.--108 mi^2 (280 km^2).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (123 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 215 ft^3/s (6.089 m^3/s).

EXTREMES.--Current year: Maximum discharge, 1,160 ft^3/s (32.9 m^3/s) Dec. 18 (gage height, 4.99 ft or 1.521 m); minimum daily, 34 ft^3/s (0.96 m^3/s) Aug. 18-23, Sept. 8-12.
Period of record: Maximum discharge, 1,730 ft^3/s (49.0 m^3/s) Feb. 12, 1970 (gage height, 5.49 ft or 1.673 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Aug. 30, Sept. 13, 1970.

REMARKS.--Records good. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft^3 (36,250,000 m^3). See table below for figures of monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	200	137	596	488	247	230	210	178	70	46	36
2	113	243	133	537	447	234	250	275	185	68	46	36
3	111	264	124	483	403	221	285	290	149	66	46	35
4	114	249	117	443	358	215	344	311	110	68	46	35
5	117	224	108	399	317	219	499	312	110	76	46	35
6	117	201	121	358	282	251	673	297	112	78	46	35
7	115	183	140	343	259	283	673	287	109	77	46	35
8	110	165	150	317	233	309	620	249	108	76	46	34
9	129	149	155	282	219	312	570	223	108	71	46	34
10	146	134	211	263	206	307	504	244	108	67	46	34
11	148	126	280	260	199	282	456	331	106	62	46	34
12	154	117	299	245	188	257	431	432	84	57	41	34
13	145	110	294	238	182	229	428	702	65	54	35	36
14	135	104	306	224	180	209	428	706	65	51	35	39
15	126	102	514	220	172	161	471	649	65	50	35	39
16	117	96	635	219	165	113	544	470	65	50	35	53
17	109	95	743	215	159	255	558	366	65	50	35	81
18	142	93	1,070	208	150	552	526	353	87	49	34	81
19	157	132	1,050	197	147	600	289	319	106	50	34	81
20	135	159	854	195	151	535	141	200	118	50	34	81
21	125	140	691	185	164	474	171	119	135	47	34	81
22	142	125	850	204	185	422	188	122	136	44	34	81
23	147	113	895	236	283	374	206	124	114	45	34	83
24	127	104	788	278	359	343	174	138	98	45	35	86
25	143	103	662	303	366	330	159	176	86	45	36	86
26	150	113	573	305	351	319	213	217	86	45	35	86
27	127	124	535	308	311	295	242	247	85	46	35	86
28	111	121	607	364	271	276	244	258	81	46	35	86
29	99	132	708	457	------	255	244	200	77	46	51	88
30	112	136	709	515	------	237	198	162	74	46	66	117
31	160	------	656	519	------	227	------	169	------	46	36	------
TOTAL	3,997	4,357	15,115	9,916	7,195	9,343	10,959	9,158	3,075	1,741	1,255	1,788
MEAN	129	145	488	320	257	301	365	295	103	56.2	40.5	59.6
MAX	160	264	1,070	596	488	600	673	706	185	78	66	117
MIN	99	93	108	185	147	113	141	119	65	44	34	34
*	755.6	661.1	929.9	880.3	798.8	992.9	1,177.8	1,233.8	1,240.5	1,171.9	1,070.2	1,048.1

CAL YR 1973 TOTAL 98,445 MEAN 270 MAX 1,540 MIN 41
WTR YR 1974 TOTAL 77,899 MEAN 213 MAX 1,070 MIN 34

*Monthend contents, in millions of cubic feet, in Great East and Lovell Lakes and Horn, Wilson, Milton, Northeast and Town House Ponds; records furnished by New Hampshire Water Resources Board.

Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		ST. JOHN RIVER BASIN					
01014700	Factory Brook near Madawaska, Me.	Lat 47°21'09", long 68°17'55", 12 ft upstream from culvert in U.S. Highway 1, half a mile upstream from mouth and 1.1 mi east of Madawaska.	5.83	1964-74	5-02-74	9.91	281
01015700	Houlton Brook near Oxbow, Me.	Lat 46°26'18", long 68°24'21", at culvert in road west from State Highway 11 to Oxbow, 1.9 mi upstream from mouth and 4.3 mi northeast of Oxbow.	5.08	1964-74	5-02-74	6.75	168
01017300	Nichols Brook near Caribou, Me.	Lat 46°51'31", long 67°56'18", at culvert in road north from Grimes Mill to State Highway 223, 300 ft upstream from mouth and 3.5 mi east of Caribou.	3.94	1964-74	12-17-73	7.10	127
		WIGGINS BROOK BASIN					
01021300	Wiggins Brook near West Lubec, Me.	Lat 44°45'26", long 67°05'23", 10 ft upstream from culvert in State Highway 191, 4.4 mi southwest of West Lubec.	5.04	1965-74	3-17-74	7.09	273
		MACHIAS RIVER BASIN					
01021600	Middle River near Machias, Me.	Lat 44°44'14", long 67°29'35", 40 ft upstream from highway bridge in connecting road between State Highway 192 and U.S. Highway 1-A, 2.2 mi northwest of Machias and 3.4 mi upstream from mouth.	8.32	1965-74	2-23-74	4.98	271
		FORBES POND BROOK BASIN					
01022700	Forbes Pond Brook near Prospect Harbor, Me.	Lat 44°24'33", long 68°01'37", on abutment of highway bridge in State Highway 186, 100 ft upstream from mouth and in the village of Prospect Harbor.	8.78	1965-74	2-23-74	3.60	223
		FROST POND BROOK BASIN					
01026800	Frost Pond Brook near Sedgwick, Me.	Lat 44°22'12", long 68°39'29", at culvert in State Highway 15 between Grays Corner and Black Corner, 700 ft upstream from mouth and 5 mi northeast of Sedgwick.	5.68	1965-74	2-23-74	6.67	228

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1974--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		PENOBSCOT RIVER BASIN					
01030400	Gulliver Brook near Monarda, Me.	Lat 45°44'23", long 68°18'30", at culvert in U.S. Highway 2, 2,700 ft upstream from mouth and 4.1 mi south of Monarda.	11.0	1964-74	12-17-73	3.97	337
01034900	Coffin Brook near Lee, Me.	Lat 45°20'18", long 68°21'42", 14 ft upstream from culvert in Lee Back Road, 4 mi southwest of Lee.	2.21	1964-74	12-21-73	6.31	103
01037200	Cold Brook near Northern Maine Junction, Me.	Lat 44°46'39", long 68°50'59", 25 ft upstream from culvert in U.S. Highway 95, 1.1 mi upstream from mouth and 1.2 mi southeast of Northern Maine Junction.	3.06	1964-74	3-17-74	8.15	292
		GOOSE RIVER BASIN					
01037430	Goose River at Rockport, Me.	Lat 44°11'21", long 69°04'49", 7 ft upstream from culvert in U.S. Highway 1, 2,000 ft upstream from mouth and 0.4 mi northwest of Rockport.	8.32	1964-74	12-17-73	7.32	551
		KENNEBEC RIVER BASIN					
01041900	Mountain Brook near Lake Parlin, Me.	Lat 45°28'12", long 70°03'54", at culvert in U.S. Highway 201, 1.8 mi upstream from mouth and 3.8 mi southeast of Lake Parlin.	3.91	1964-74	5-14-74	3.78	214
01046800	South Branch Carrabassett River at Bigelow, Me.	Lat 45°04'45", long 70°19'03", at bridge in State Highway 27, 3,000 ft southeast of Bigelow.	14.2	1964-74	12-21-73	9.75	1,500
01048100	Pelton Brook near Anson, Me.	Lat 44°45'58", long 69°54'32", on wingwall of abandoned highway bridge just downstream from State Highway 43, 3,600 ft upstream from mouth and 2.4 mi southwest of Anson.	14.1	1965-74	12-21-73	9.79	2,080
01049100	Hall Brook at Thorndike, Me.	Lat 44°34'52", long 69°16'50", at culvert in State Highway 139, 0.2 mi northwest of Thorndike and 0.3 mi upstream from mouth.	5.23	1964-74	12-17-73	9.94	712
01049700	Gardiner Pond Brook at Dresden Mills, Me.	Lat 44°06'29", long 69°43'21", 15 ft upstream from culvert in town road from Dresden Mills to Head Tide, 600 ft upstream from mouth and in the northeast section of the village of Dresden Mills.	8.19	1965-74	12-17-73	8.96	456
		ANDROSCOGGIN RIVER BASIN					
01050900	Four Ponds Brook near Houghton, Me.	Lat 44°49'55", long 70°42'08", 25 ft upstream from culvert in State Highway 17, 5,000 ft upstream from mouth and 6.8 mi north of Houghton.	3.41	1964-74	12-17-73	6.15	140
01055300	Bog Brook near Buckfield, Me.	Lat 44°15'57", long 70°18'58', 15 ft upstream from culvert in State Highway 117, 900 ft upstream from mouth and 3 mi southeast of Buckfield.	10.5	1964-74	12-17-73	8.36	266

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
PRESUMPSCOT RIVER BASIN							
01062700	Patte Brook near Bethel, Me.	Lat 44°20'41", long 70°47'32", 15 ft upstream from culvert in town road between State Highway 5 and West Bethel, 1,800 ft upstream from mouth, and 4.5 mi south of Bethel.	5.35	1965-74	12-17-73	5.30	266
JONES CREEK BASIN							
01064200	Mill Brook near Old Orchard Beach, Me.	Lat 43°32'40", long 70°23'31", on abutment of dismantled bridge, 75 ft upstream from culvert in Portland Avenue, 1.7 mi upstream from mouth and 2 mi northwest of Old Orchard Beach.	2.23	1965-74	12-12-73	3.86	138
SACO RIVER BASIN							
01066100	Pease Brook near Cornish, Me.	Lat 43°47'19", long 70°45'58", 5 ft upstream from culvert in State Highway 25, 1,200 ft upstream from mouth and 2 mi southeast of Cornish.	4.62	1965-74	4-05-74	5.62	320
LITTLE RIVER BASIN							
01069700	Branch Brook near Kennebunk, Me.	Lat 43°22'44", long 70°34'56", on wingwall of culvert in State Highway 9-A, 2.1 mi west of Kennebunk, and 3.3 mi upstream from mouth.	10.7	1965-74	12-21-73	3.17	253

Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		ST. JOHN RIVER BASIN				
Presque Isle Stream	Aroostook River	Lat 46°41'07", long 68°00'56" Aroostook County, at bridge on Park Street, at Presque Isle, Me.	----	1973	5-05-74	1,780
Squapan Stream	Aroostook River	Lat 46°33'42", long 68°22'36", Aroostook County, at bridge on State Highway 11, at Squapan, Me.	----	----	2-20-74	758
Aroostook River	St. John River	Lat 46°37'57", long 68°25'09", Aroostook County, at bridge on State Highway 11, 0.7 mi (1.1 km) west of Ashland, Me.	----	1972-3	5-07-74	10,900
Meduxnekeag River	St. John River	Lat 46°08'32", long 67°49'26", Aroostook County, at bridge on Interstate Highway 95, at Houlton, Me.	----	1972-3	5-05-74	1,830
		PENOBSCOT RIVER BASIN				
Molunkus Stream	Mattawamkeag River	Lat 45°53'30", long 68°24'12", Aroostook County, at bridge on Interstate Highway 95, 1.7 mi (2.7 km) north of Sherman, Me.	----	1972-3	4-27-74	298
West Branch Mattawamkeag River	Mattawamkeag River	Lat 46°01'38", long 68°17'18", Aroostook County, at bridge on Interstate Highway 95, 1.6 mi (2.6 km) northwest of Island Falls, Me.	----	1972-3	4-27-74	926
Mattawamkeag River	Penobscot River	Lat 45°32'51", long 68°11'25", Penobscot County, at bridge on State Highway 170, at Kingman, Me.	----	1972	4-26-74	8,400
		KENNEBEC RIVER BASIN				
West Outlet Stream	Kennebec River	Lat 45°39'06", long 69°44'43", Somerset County, just downstream from West Outlet dam of Moosehead Lake, near Rockwood, Me.	----	(many)	10-03-73 11-07-73 12-11-73 2-05-74 4-30-74 6-12-74 9-06-74	53.9 51.5 52.3 56.6 52.5 78.1 60.1
Austin Stream	Kennebec River	Lat 45°03'55", long 69°52'55", Somerset County, .8 mi (1.3 km) upstream from mouth, at Bingham, Me.	90.3	(many)	6-24-74	199
Carrabassett River	Kennebec River	Lat 45°04'41", long 70°12'42", Franklin County, at bridge at Carrabassett Valley, Me.	----	----	4-23-74	1,470
		ANDROSCOGGIN RIVER BASIN				
Little Androscoggin River	Androscoggin River	Lat 44°05'17", long 70°20'02", Androscoggin County, at bridge on State Highway 121, at Hackett Mills, Me.	----	1973	4-18-74	2,000
		SACO RIVER BASIN				
Saco River	Atlantic Ocean	Lat 43°52'42", long 70°48'15", Oxford County, at bridge on State Highway 5, at Hiram, Me.	----	1972-3	4-17-74	4,910
Saco River	Atlantic Ocean	Lat 43°44'01", long 70°39'11", York County, at bridge on State Highway 25, 0.35 mi (0.56 km) upstream from mouth of Little Ossipee River, at East Limington, Me.	----	----	4-17-74	8,050

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PART 2. WATER QUALITY RECORDS

01021000 St. Croix River at Baring, Maine

LOCATION.--Lat 45°08'12", long 67°19'05", Washington County, temperature recorder at gaging station on right bank at site of destroyed international highway bridge at Baring.

DRAINAGE AREA.--1,370 mi² (3,548 km²).

PERIOD OF RECORD.--Water temperatures: October 1959 to September 1974.

EXTREMES, 1973-74.--Water temperatures: Maximum, 26.0°C Aug. 11-14, 19, 21, 22; minimum, freezing point on many days during December through April.

EXTREMES, 1959-74.--Water temperatures: Maximum, 30.5°C July 28, 1963; minimum, freezing point on many days during winter months.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.5	9.5	9.5	2.0	1.5	0.0	0.0	0.5	0.0	1.5	1.0
2	15.0	14.0	9.5	8.5	1.5	1.0	0.0	0.0	0.0	0.0	1.5	0.5
3	14.5	14.5	8.5	8.0	1.0	1.0	---	---	0.0	0.0	1.5	0.5
4	14.5	14.5	8.0	6.5	1.5	1.0	---	---	0.0	0.0	2.0	1.0
5	14.5	14.0	6.5	6.0	3.0	1.5	---	---	0.0	0.0	1.5	0.5
6	14.0	13.0	6.0	5.0	4.0	3.0	---	---	0.0	0.0	2.0	0.5
7	13.0	12.0	5.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0	3.0	1.0
8	13.5	11.5	4.5	4.0	1.5	1.5	0.0	0.0	0.0	0.0	1.5	0.5
9	13.0	11.5	4.0	3.5	2.0	1.5	0.0	0.0	0.0	0.0	1.5	0.5
10	12.0	11.5	3.5	3.0	3.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0
11	12.0	11.0	3.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	1.0	0.0
12	12.0	11.0	3.0	2.0	3.0	1.5	0.0	0.0	0.0	0.0	0.5	0.0
13	12.0	11.5	3.0	3.0	1.5	1.0	0.0	0.0	0.0	0.0	0.5	0.0
14	12.0	11.5	3.0	3.0	1.5	1.0	0.0	0.0	0.0	0.0	1.0	0.0
15	11.5	11.0	3.0	3.0	3.0	1.5	0.0	0.0	0.0	0.0	1.5	0.0
16	11.5	11.0	3.0	2.0	2.0	1.5	0.0	0.0	0.0	0.0	1.5	0.5
17	11.0	10.5	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0	0.5
18	11.0	10.5	2.0	1.5	2.0	1.5	0.0	0.0	0.5	0.0	0.5	0.5
19	11.0	10.0	2.0	1.5	1.5	1.0	0.0	0.0	0.5	0.0	1.0	0.5
20	10.0	10.0	1.5	1.0	1.0	0.5	0.0	0.0	0.5	0.0	1.0	0.0
21	10.0	9.5	1.5	1.0	1.5	0.5	0.0	0.0	0.5	0.0	0.5	0.0
22	10.0	9.0	1.5	1.0	1.5	1.5	0.0	0.0	0.5	0.0	1.5	0.0
23	10.0	9.0	1.5	1.5	1.5	1.0	0.0	0.0	0.5	0.0	1.5	0.0
24	9.5	9.5	1.5	1.5	1.0	0.0	0.0	0.0	0.5	0.0	1.0	0.5
25	9.5	9.0	1.5	1.5	0.5	0.0	0.5	0.0	0.5	0.0	1.5	0.0
26	10.0	9.5	1.5	1.5	0.0	0.0	0.5	0.0	1.0	0.0	1.0	0.5
27	10.0	9.0	1.5	1.5	0.0	0.0	0.5	0.0	1.0	0.0	1.5	0.0
28	9.0	8.5	1.5	1.5	0.0	0.0	0.5	0.0	1.5	0.5	0.5	0.0
29	9.0	8.0	3.0	1.5	0.0	0.0	0.0	0.0	---	---	1.0	0.0
30	9.0	9.0	3.0	2.0	0.0	0.0	0.0	0.0	---	---	1.5	0.0
31	9.5	9.0	---	---	0.0	0.0	0.5	0.0	---	---	0.5	0.5
MONTH	15.0	8.0	9.5	1.0	4.0	0.0	0.5	0.0	1.5	0.0	3.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.5	0.5	7.0	4.0	12.0	11.5	22.0	20.0	24.0	21.0	23.5	21.0
2	1.0	0.5	5.5	4.0	13.5	11.0	24.0	20.5	24.5	21.0	21.5	19.5
3	1.5	0.5	9.5	4.0	15.0	12.0	24.5	21.5	25.0	22.0	19.5	18.5
4	1.0	1.0	4.0	4.0	15.5	13.0	23.5	22.0	25.0	23.0	18.5	18.5
5	1.0	0.5	5.5	4.0	16.0	14.0	24.0	21.5	24.5	23.0	20.0	18.0
6	0.5	0.5	6.0	4.5	18.5	15.0	23.0	21.5	25.5	22.0	19.5	18.0
7	1.5	0.5	6.5	6.0	19.5	15.5	24.0	21.5	25.5	22.0	18.5	18.0
8	2.0	1.0	7.0	6.5	20.0	16.0	24.5	22.0	25.5	23.0	20.5	17.0
9	1.0	0.0	8.5	6.5	21.0	17.0	23.0	21.5	25.0	23.0	20.5	18.0
10	0.5	0.0	8.5	7.0	19.5	18.0	24.5	21.5	25.5	22.0	19.5	[illegible]
11	2.0	0.0	9.0	8.5	18.0	17.0	25.0	21.5	26.0	22.0	19.5	18.5
12	2.0	0.5	9.5	8.5	20.0	17.0	24.0	21.5	26.0	22.0	20.5	18.5
13	1.0	0.5	9.0	7.0	21.5	18.5	25.0	21.5	26.0	22.0	20.5	19.0
14	1.0	1.0	10.0	9.0	22.0	19.0	25.0	21.5	26.0	23.5	20.5	19.5
15	2.0	1.0	11.5	10.0	22.0	19.0	23.0	22.0	25.0	23.0	21.0	18.5
16	2.0	1.5	12.0	10.5	23.0	19.5	25.0	22.0	25.0	21.5	20.0	18.5
17	3.5	1.0	13.0	11.0	21.5	20.5	25.0	23.0	25.0	21.5	20.0	18.0
18	4.5	2.0	13.5	11.5	20.5	19.5	25.0	23.0	25.0	23.0	20.0	18.5
19	4.5	3.0	14.5	13.0	21.5	19.5	24.0	23.0	26.0	22.0	19.0	17.0
20	5.0	3.5	14.0	13.0	21.0	19.5	23.5	23.0	25.5	22.0	18.5	18.0
21	4.5	4.0	14.5	13.0	22.0	20.0	24.0	21.0	26.0	23.0	19.0	18.5
22	5.5	4.5	13.5	13.5	22.0	20.5	24.0	21.5	26.0	23.0	18.5	17.0
23	5.5	5.5	13.5	13.0	23.0	21.0	25.0	21.5	25.0	23.0	17.0	16.5
24	5.5	5.0	13.0	12.0	23.5	21.0	25.0	21.0	24.5	24.0	18.0	15.0
25	5.0	4.5	12.0	11.5	21.5	20.5	24.0	21.0	24.5	23.0	16.5	14.5
26	5.5	4.5	11.5	11.0	20.5	20.0	24.5	21.0	24.0	21.5	17.0	15.5
27	6.0	4.5	11.0	10.5	21.5	19.5	24.5	21.5	22.0	21.5	18.0	15.5
28	6.0	5.5	10.5	10.0	23.0	19.5	23.5	22.0	24.5	21.5	16.0	15.0
29	6.0	6.0	11.0	10.0	21.0	19.5	22.0	21.5	23.0	21.5	16.0	15.5
30	7.0	6.0	11.0	10.5	21.5	20.0	23.5	21.0	21.5	21.0	16.0	15.0
31	---	---	13.0	10.5	---	---	23.5	22.0	23.0	21.0	---	---
MONTH	7.0	0.0	14.5	4.0	23.5	11.0	25.0	20.0	26.0	21.0	23.5	14.5
YEAR	26.0	0.0										

01021050 St. Croix River at Milltown, Maine

LOCATION.--Lat 45°10'11", long 67°17'05", Washington County, four-parameter monitor at international highway bridge at Milltown.

DRAINAGE AREA.--1,460 mi² (3,780 km²).

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1974.
Water temperatures: October 1973 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 25.0°C Aug. 12-14.

REMARKS.--Monitor not operating Nov. 1 to May 22.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	OIL AND GREASE (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
OCT. 18...	1230	1870	78	7.7	6.7	10.0	32000	32	42	--	7	--
NOV. 29...	1200	2670	90	10.6	6.9	3.0	7900	150	46	1	3	50
DEC. 27...	1445	5870	41	12.0	6.5	.0	110	10	28	0	4	55
JAN. 28...	1600	2910	73	12.0	6.5	.5	2400	29	34	0	1	45
FEB. 28...	0945	2160	71	12.0	6.5	1.0	8000	51	34	0	15	45
MAR. 28...	1300	2120	63	13.0	6.4	.5	2400	17	25	0	3	42
APR. 30...	1215	4590	50	9.4	6.6	8.5	1200	5	24	0	3	40
MAY 22...	1215	3600	52	8.6	6.6	12.4	2000	10	30	0	2	50
JUNE 27...	0930	2200	62	5.3	6.5	18.0	190000	38	45	0	2	60
JULY 23...	1400	1870	73	3.9	6.3	22.0	8800	13	32	--	4	50
31...	1500	1310	86	2.7	6.2	22.0	25000	1800	34	--	4	50
AUG. 13...	1345	1320	70	2.6	6.4	23.5	14000	--	32	--	5	50
29...	1530	1330	57	3.4	6.5	21.0	5200	60	24	--	3	20
SEP. 12...	1430	1370	80	4.5	6.6	20.0	4800	53	28	--	3	40
26...	1500	1270	94	5.2	6.5	15.5	136000	43	33	--	4	40

DATE	CHLOROPHYLL A (UG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	SUSPENDED SOLIDS (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT. 18...	4.1	.06	12	.00	.01	.01	.27	.04	.23	.28	2	46
NOV. 29...	3.7	.04	16	.00	.00	.00	.22	.08	.14	.22	14	173
DEC. 27...	1.9	.01	13	.00	.00	.00	.17	.05	.12	.17	14	44
JAN. 28...	2.3	.02	12	.00	.01	.01	.47	.04	.43	.48	--	53
FEB. 28...	6.8	.03	10	.01	.00	.01	.36	.09	.27	.37	4	54
MAR. 28...	4.4	.02	12	.02	.01	.03	.57	.19	.38	.60	3	50
APR. 30...	5.4	.02	--	.01	.00	.01	.31	.18	.13	.32	4	59
MAY 22...	.0	.02	8.0	.01	.00	.01	.35	.02	.33	.36	4	39
JUNE 27...	6.0	.03	--	.03	.00	.03	.33	.03	.30	.35	11	79
JULY 23...	3.5	--	13	--	--	--	--	--	--	--	--	--
31...	8.6	--	11	--	--	--	--	--	--	--	--	--
AUG. 13...	3.0	--	14	--	--	--	--	--	--	--	--	--
29...	11	--	9.7	--	--	--	--	--	--	--	--	--
SEP. 12...	8.0	--	11	--	--	--	--	--	--	--	--	--
26...	7.3	--	15	--	--	--	--	--	--	--	--	--

01021050 St. Croix River at Milltown, Maine--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED BORON (B) (UG/L)
AUG. 13...	10	13	16	0	9.0	8.3	200	11	0	0	6

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED GALLIUM (GA) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)
AUG. 13...	0	2	0	1	0	<2	1	0	120	0	2

DATE	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	COD IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)
AUG. 13...	0	28	<2	8	2.0	6	<2	<.5	.0	7700	20800

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	DISSOLVED SOLIDS			SUSPENDED SOLIDS		
DATE	GROSS A (U-NAT.) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)	GROSS A (U-NAT.) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)
OCT. 18...	< 2.0	2.9	96	< 2.0	< 1.0	1

01021050 St. Croix River at Milltown, Maine--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	76	71	73	---	---	---
2	74	68	70	---	---	---
3	72	65	67	---	---	---
4	78	71	73	---	---	---
5	71	68	70	---	---	---
6	73	61	67	---	---	---
7	71	67	68	---	---	---
8	83	67	76	---	---	---
9	77	72	74	---	---	---
10	76	71	74	---	---	---
11	72	69	70	---	---	---
12	71	68	70	---	---	---
13	76	68	72	---	---	---
14	77	75	75	---	---	---
15	76	72	74	---	---	---
16	86	73	80	---	---	---
17	80	73	76	---	---	---
18	83	73	78	---	---	---
19	77	74	76	---	---	---
20	80	75	75	---	---	---
21	80	73	76	---	---	---
22	79	72	76	---	---	---
23	74	69	71	52	50	51
24	72	69	71	53	49	51
25	71	68	69	56	50	54
26	71	69	70	64	44	56
27	69	59	65	49	39	45
28	79	57	72	60	39	45
29	86	74	81	66	47	59
30	90	80	85	72	63	67
31	87	79	84	---	---	---
MONTH	90	57	73	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	74	68	72	88	84	86	128	95	109
2	---	---	---	67	56	63	88	85	86	131	99	115
3	---	---	---	64	55	62	106	86	95	115	52	71
4	---	---	---	66	59	62	115	106	110	52	43	47
5	---	---	---	66	59	62	118	108	113	64	41	51
6	---	---	---	71	54	63	105	80	87	51	46	47
7	---	---	---	70	68	69	88	78	82	46	44	45
8	---	---	---	76	66	72	94	88	91	66	43	52
9	---	---	---	65	49	59	88	84	86	89	65	76
10	---	---	---	68	48	58	99	83	90	89	80	85
11	---	---	---	81	71	78	98	90	94	84	80	83
12	34	33	34	96	63	79	99	89	93	81	77	79
13	37	32	33	96	81	85	98	70	81	94	77	87
14	57	38	49	80	71	74	96	83	88	100	87	92
15	75	45	56	77	70	74	95	81	86	116	98	107
16	82	74	77	74	68	71	90	83	88	123	113	118
17	77	65	68	70	67	68	113	84	94	116	97	102
18	73	64	68	69	67	68	114	106	110	95	69	83
19	65	61	64	73	67	71	112	107	109	111	84	101
20	69	59	63	79	68	73	112	103	108	109	104	106
21	68	59	65	80	73	79	112	96	104	120	94	103
22	58	54	57	78	69	74	98	93	96	125	115	120
23	62	54	58	76	73	74	99	90	93	119	107	111
24	66	60	63	78	75	76	110	95	101	110	99	104
25	67	60	64	81	74	78	111	103	107	101	96	98
26	65	63	64	81	76	78	121	106	114	101	93	96
27	64	62	63	91	75	83	106	89	98	121	90	98
28	70	62	67	94	84	89	95	89	92	126	85	107
29	74	64	69	113	90	101	93	57	77	91	83	88
30	75	72	73	113	87	100	98	84	95	120	90	106
31	---	---	---	86	82	84	129	93	110	---	---	---
MONTH	---	---	---	113	48	74	129	57	96	131	41	90
PERIOD	131	32	79									

01021050 St. Croix River at Milltown, Maine--Continued

DISSOLVED OXYGEN IN MILLIGRAMS PER LITRE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.1	7.2	---	---	---
2	7.4	7.2	7.3	---	---	---
3	7.3	7.1	7.2	---	---	---
4	7.2	7.0	7.1	---	---	---
5	7.4	7.2	7.3	---	---	---
6	7.8	7.4	7.7	---	---	---
7	8.2	7.8	8.0	---	---	---
8	8.2	7.9	8.1	---	---	---
9	8.2	8.0	8.1	---	---	---
10	8.3	8.2	8.2	---	---	---
11	8.5	7.5	8.4	---	---	---
12	8.1	7.5	7.7	---	---	---
13	7.7	7.4	7.5	---	---	---
14	7.6	7.4	7.5	---	---	---
15	8.6	7.7	8.3	---	---	---
16	8.7	8.4	8.5	---	---	---
17	8.7	8.6	8.7	---	---	---
18	8.6	7.6	8.0	---	---	---
19	8.0	7.8	7.7	---	---	---
20	8.2	7.8	8.0	---	---	---
21	8.2	8.1	8.2	---	---	---
22	8.6	8.3	8.4	---	---	---
23	8.6	8.1	8.4	8.9	8.7	8.8
24	8.3	8.2	8.2	9.0	8.8	8.9
25	8.4	8.3	8.3	8.9	8.8	8.8
26	8.5	8.3	8.4	9.1	8.6	8.8
27	9.0	8.3	8.5	9.6	7.0	8.8
28	8.9	8.7	8.8	8.2	7.3	7.7
29	9.0	8.6	8.8	8.0	6.0	6.7
30	8.6	8.4	8.5	---	---	---
31	8.4	8.1	8.2	---	---	---
MONTH	9.0	7.0	8.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4.2	3.9	4.1	2.9	2.6	2.7	3.1	2.4	2.8
2	---	---	---	4.4	4.1	4.3	2.8	2.3	2.5	4.1	2.6	3.3
3	---	---	---	4.5	4.2	4.4	2.6	2.0	2.3	5.9	4.1	5.2
4	---	---	---	4.5	4.2	4.3	2.2	1.8	1.9	6.0	5.9	6.0
5	---	---	---	4.3	4.2	4.3	2.1	1.7	1.9	6.1	5.6	5.9
6	---	---	---	4.5	4.1	4.3	3.1	2.2	2.7	5.8	5.5	5.7
7	---	---	---	4.6	4.3	4.5	3.0	2.7	2.6	5.6	5.5	5.6
8	---	---	---	---	---	---	2.8	1.9	2.2	5.7	5.2	5.5
9	---	---	---	---	---	---	2.4	2.0	2.2	5.1	4.7	4.9
10	---	---	---	5.3	5.0	5.1	---	---	---	4.8	4.4	4.6
11	---	---	---	4.7	4.2	4.5	---	---	---	4.6	4.4	4.5
12	7.9	7.4	7.7	---	---	---	2.5	2.1	2.2	---	---	---
13	8.0	7.3	7.6	---	---	---	2.7	2.0	2.4	---	---	---
14	7.2	6.4	6.7	---	---	---	2.4	1.9	2.1	---	---	---
15	6.9	6.3	6.6	---	---	---	2.9	2.2	2.6	---	---	---
16	6.4	6.0	6.2	---	---	---	2.8	2.0	2.4	---	---	---
17	6.5	6.3	6.4	---	---	---	2.8	2.6	2.8	5.8	4.0	5.1
18	6.8	6.5	6.7	---	---	---	2.9	2.4	2.6	5.2	4.5	4.8
19	6.9	6.3	6.4	4.8	4.0	4.4	2.9	2.4	2.6	5.9	4.9	5.5
20	7.3	6.4	6.8	4.4	3.7	4.2	3.1	2.7	2.8	5.4	4.7	5.0
21	6.8	6.3	6.5	4.5	4.1	4.3	3.1	2.3	2.7	4.2	3.0	3.6
22	6.8	6.1	6.4	4.5	4.0	4.2	3.3	2.5	3.0	4.0	3.2	3.6
23	6.2	5.4	5.8	4.6	3.9	4.1	3.4	2.5	2.9	5.6	3.8	4.9
24	5.6	5.0	5.3	4.4	3.8	4.1	3.4	2.8	3.2	7.0	5.4	6.2
25	5.3	5.0	5.1	4.1	3.5	4.0	3.7	2.8	3.4	7.4	5.5	6.4
26	6.4	5.1	5.6	4.1	3.9	---	4.0	3.2	3.5	10.5	5.1	7.7
27	5.2	3.9	4.2	4.1	3.7	3.9	4.7	3.1	4.2	---	---	---
28	4.1	3.7	3.9	4.0	3.5	3.8	4.8	3.1	3.8	---	---	---
29	4.0	3.6	3.8	3.8	3.3	3.6	3.6	3.2	3.4	---	---	---
30	4.0	3.8	3.9	3.5	3.3	3.4	3.6	3.3	3.5	---	---	---
31	---	---	---	3.5	1.4	2.9	3.2	2.5	2.8	---	---	---
MONTH	---	---	---	---	---	---	4.8	1.7	2.8	---	---	---
PERIOD	10.5	1.4	5.4									

01021050 St. Croix River at Milltown, Maine--Continued

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.1	6.3	---	---	---
2	6.6	6.4	6.5	---	---	---
3	6.4	6.0	6.3	---	---	---
4	6.6	6.2	6.3	---	---	---
5	6.5	6.3	6.4	---	---	---
6	6.4	5.8	6.1	---	---	---
7	6.0	5.4	5.8	---	---	---
8	5.9	5.3	5.6	---	---	---
9	6.0	5.6	5.8	---	---	---
10	6.2	5.9	6.1	---	---	---
11	6.1	5.7	5.2	---	---	---
12	6.1	5.8	6.0	---	---	---
13	6.3	6.2	6.2	---	---	---
14	6.6	6.3	6.5	---	---	---
15	6.8	6.5	6.6	---	---	---
16	7.3	6.8	7.0	---	---	---
17	6.9	6.7	6.8	---	---	---
18	6.8	6.5	6.7	---	---	---
19	7.0	6.2	6.6	---	---	---
20	6.4	6.0	6.2	---	---	---
21	6.3	6.1	6.2	---	---	---
22	6.4	6.1	6.3	---	---	---
23	6.7	6.1	6.5	6.7	6.6	6.7
24	7.0	6.6	6.7	6.8	6.7	6.8
25	7.0	6.5	6.7	6.8	6.6	6.7
26	6.9	6.5	6.6	7.4	6.7	7.1
27	6.8	6.2	6.6	7.0	6.7	6.8
28	6.5	6.1	6.3	6.7	6.6	6.7
29	6.7	6.3	6.5	6.9	6.5	6.7
30	6.7	6.3	6.5	7.2	7.1	7.2
31	7.0	6.6	6.8	7.3	7.1	7.2
MONTH	7.3	5.3	6.3	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	7.0	7.0	6.9	6.8	6.8	7.1	6.6	7.0	7.4	7.0	7.1
2	7.1	6.9	7.0	6.9	6.7	6.9	7.1	6.8	7.0	7.9	7.2	7.4
3	7.1	7.0	7.0	6.9	6.7	6.8	7.1	6.8	7.0	7.3	7.0	7.1
4	7.0	6.9	7.0	6.7	6.4	6.5	7.0	6.6	6.8	7.1	6.9	7.0
5	7.1	6.9	7.0	6.5	6.3	6.4	6.9	6.6	6.8	7.3	6.7	7.1
6	7.0	6.9	6.9	6.5	6.3	6.4	7.0	6.5	6.7	7.7	7.3	7.5
7	6.9	6.8	6.9	6.5	6.3	6.4	6.8	6.4	6.6	7.6	7.1	7.4
8	7.0	6.9	6.9	6.5	6.2	6.4	6.5	6.3	6.4	7.3	6.9	7.1
9	7.0	6.9	6.9	6.5	6.3	6.4	6.4	6.1	6.3	7.2	6.5	6.8
10	6.9	6.7	6.8	6.6	6.4	6.5	6.4	6.0	6.2	7.4	6.9	7.1
11	6.7	6.5	6.6	6.6	6.4	6.5	6.0	5.8	5.9	7.1	6.6	6.9
12	6.5	6.4	6.4	6.9	6.6	6.8	6.1	5.7	5.9	8.6	6.4	7.6
13	6.5	6.2	6.3	6.8	6.4	6.6	6.4	5.9	6.1	---	---	---
14	6.8	6.4	6.7	6.4	6.2	6.3	6.5	6.0	6.2	---	---	---
15	6.8	6.6	6.7	6.2	6.1	6.2	6.4	5.9	6.2	---	---	---
16	6.8	6.5	6.6	6.3	6.1	6.2	6.4	6.2	6.3	---	---	---
17	6.7	6.5	6.6	6.4	6.2	6.3	6.3	6.0	6.2	7.8	7.3	7.5
18	6.9	6.7	6.8	6.2	6.1	6.2	6.4	6.1	6.3	8.0	7.7	7.8
19	6.8	6.7	6.8	6.1	6.0	6.1	6.2	6.0	6.1	7.8	7.5	7.7
20	6.8	6.6	6.7	6.2	6.0	6.1	6.5	6.2	6.4	7.7	7.5	7.7
21	6.8	6.6	6.7	6.3	6.0	6.2	6.6	6.2	6.4	7.6	7.2	7.4
22	6.9	6.6	6.7	6.1	6.0	6.1	6.6	6.1	6.2	7.2	7.0	7.1
23	6.7	6.6	6.7	6.1	6.0	6.0	6.2	6.0	6.1	7.2	6.7	6.9
24	6.7	6.5	6.6	6.4	6.1	6.4	6.1	5.9	6.0	6.8	6.6	6.7
25	6.6	6.5	6.6	6.4	6.2	6.3	6.2	5.9	6.0	6.7	6.5	6.6
26	6.7	6.5	6.6	6.4	6.2	6.3	6.4	6.1	6.3	6.8	6.5	6.6
27	6.7	6.5	6.6	6.3	6.1	6.2	6.6	5.9	6.2	7.5	6.4	6.6
28	6.9	6.5	6.7	6.2	6.0	6.1	6.3	6.1	6.2	11.6	8.9	10.6
29	6.8	6.7	6.7	6.3	6.0	6.1	7.4	5.9	6.5	9.8	6.9	8.2
30	6.8	6.6	6.7	6.3	6.0	6.1	7.1	6.7	6.9	7.0	6.4	6.6
31	---	---	---	6.8	6.2	6.3	7.4	6.6	7.0	---	---	---
MONTH	7.1	6.2	6.7	6.9	6.0	6.4	7.4	5.7	6.4	11.6	6.4	7.3
PERIOD	11.6	5.3	6.6									

01021050 St. Croix River at Milltown, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	12.0	13.0	---	---	---
2	14.5	12.5	13.5	---	---	---
3	14.0	13.5	14.0	---	---	---
4	14.0	13.5	14.0	---	---	---
5	13.0	12.5	13.0	---	---	---
6	13.0	12.0	12.5	---	---	---
7	12.5	11.0	11.5	---	---	---
8	12.5	10.5	11.5	---	---	---
9	12.5	10.5	11.5	---	---	---
10	11.5	10.5	11.0	---	---	---
11	11.5	9.5	10.5	---	---	---
12	11.5	10.0	11.0	---	---	---
13	12.0	10.5	11.5	---	---	---
14	12.0	11.0	11.5	---	---	---
15	11.0	10.0	10.5	---	---	---
16	11.0	9.5	10.5	---	---	---
17	10.5	9.0	10.0	---	---	---
18	10.5	9.5	10.0	---	---	---
19	10.5	9.5	10.0	---	---	---
20	10.0	9.0	9.5	---	---	---
21	9.5	9.0	9.5	---	---	---
22	9.5	8.0	9.0	---	---	---
23	10.5	8.0	9.0	12.0	11.0	11.5
24	10.0	9.0	9.5	11.5	10.5	11.0
25	9.5	9.0	9.0	10.5	10.0	10.0
26	9.0	8.0	8.5	10.0	10.0	10.0
27	9.0	8.0	8.5	10.5	9.5	10.0
28	8.0	6.5	7.5	10.0	9.0	9.5
29	8.0	6.5	7.0	11.5	8.5	10.0
30	9.0	8.0	8.0	11.5	9.5	10.5
31	9.0	8.0	9.0	13.5	10.0	11.5
MONTH	14.5	6.5	10.5	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	11.0	11.5	21.5	19.0	20.5	23.5	22.0	22.5	22.5	21.5	22.0
2	15.0	11.0	13.0	22.5	19.5	21.0	23.5	22.5	23.0	22.0	19.5	20.5
3	16.5	12.5	14.0	24.0	20.5	22.0	24.0	22.5	23.5	19.5	18.0	18.5
4	17.0	13.0	15.0	23.0	21.0	21.5	24.5	24.0	24.0	18.0	18.0	18.0
5	17.5	14.5	16.0	22.0	20.0	21.5	24.5	23.5	24.0	20.0	17.5	19.0
6	18.5	15.5	17.0	21.5	20.0	21.0	24.5	22.5	23.5	19.5	17.5	18.5
7	20.0	16.0	18.0	23.0	20.5	21.5	24.0	22.5	23.5	19.0	17.5	18.0
8	20.5	16.5	18.5	23.0	21.0	22.0	24.0	23.5	24.0	19.5	17.0	18.0
9	21.5	18.5	20.0	22.5	20.0	21.5	24.0	23.0	23.5	20.0	18.5	19.0
10	21.0	18.0	18.5	23.0	20.0	21.5	24.0	23.0	23.5	20.0	19.0	19.5
11	18.0	17.0	17.5	22.5	21.0	22.0	24.5	23.0	23.5	19.5	18.5	19.0
12	20.0	17.0	18.0	22.0	20.5	21.5	25.0	23.5	24.5	20.0	19.0	19.5
13	21.0	18.0	19.5	23.5	20.5	22.0	25.0	23.0	24.0	20.5	19.0	20.0
14	22.0	18.5	20.0	23.5	20.5	22.0	25.0	23.5	24.5	20.5	19.5	20.0
15	21.5	18.5	20.0	22.5	20.5	21.0	24.5	23.0	23.5	19.5	18.5	19.0
16	21.5	19.0	20.0	23.5	20.5	22.0	23.5	22.5	23.0	19.5	18.5	19.0
17	21.5	19.0	19.5	24.0	21.0	22.5	23.5	22.0	23.0	18.0	17.0	17.5
18	20.0	18.5	19.0	23.5	21.0	22.5	24.0	23.0	23.5	18.0	17.5	18.0
19	21.5	18.5	20.0	22.5	20.0	21.5	24.0	23.0	23.5	17.5	16.5	17.0
20	20.5	18.5	19.5	22.0	20.5	21.0	24.5	23.0	24.0	17.5	17.0	17.0
21	21.5	19.0	20.0	23.0	19.5	21.0	24.5	23.5	24.0	18.0	17.5	17.5
22	22.0	19.5	20.5	23.0	20.5	21.5	24.5	23.5	24.0	18.0	16.5	17.5
23	22.5	19.5	21.0	23.0	20.5	22.0	24.5	23.0	23.5	16.5	15.0	15.5
24	23.0	20.0	21.5	23.0	20.5	22.0	24.0	23.0	23.5	15.5	14.5	15.0
25	21.5	19.0	20.0	23.0	21.0	22.0	23.5	22.5	23.0	15.0	14.0	14.5
26	19.0	18.0	18.5	23.5	21.0	22.5	23.0	21.5	22.0	15.5	15.0	15.0
27	20.5	18.0	19.5	23.5	21.0	22.5	22.0	20.5	21.0	16.0	15.0	15.5
28	22.0	18.5	20.0	23.0	21.5	22.0	23.0	21.0	22.0	16.0	15.0	15.0
29	20.5	18.5	19.5	22.0	21.0	21.5	23.0	20.5	21.5	15.5	15.5	15.5
30	21.0	18.5	19.5	23.0	20.5	21.5	20.5	20.0	20.5	16.0	14.5	15.5
31	---	---	---	23.0	21.5	22.0	22.0	20.5	21.0	---	---	---
MONTH	23.0	11.0	18.5	24.0	19.0	21.5	25.0	20.0	23.0	22.5	14.0	18.0
PERIOD	25.0	6.5	18.0									

01034500 Penobscot River at West Enfield, Maine

(National Stream-quality Accounting Network and

International Hydrological Decade River Station)

LOCATION.--Lat 45°14'12", long 68°38'56", Penobscot County, two-parameter monitor at gaging station on left bank at downstream side of highway bridge, 1,000 ft (300 m) downstream from Piscataquis River and 1 mi (2 km) southwest of West Enfield.

DRAINAGE AREA.--6,670 mi² (17,275 km²), including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1974.
Specific conductance: July 1973 to September 1974.
Water temperatures: July 1966 to September 1974.

EXTREMES.--1973-74:
Specific conductance: Maximum 108 micromhos Feb. 22; minimum, 36 micromhos Apr. 16.
Water temperatures: Maximum, 24.5°C July 14, Aug. 4, 5, 12-14, 20-23; minimum, freezing point on many days during November through April.

Period of record:
Specific conductance: Maximum, 153 micromhos Aug. 21, 1973; minimum, 36 micromhos Apr. 16, 1974.
Water temperatures: Maximum, 27.0°C July 29, 30, 1970; minimum, freezing point on many days during winter months.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL PHYTOPLANKTON (CELLS PER ML) †
OCT.										
24...	1015	6860	58	8.0	6.5	8.5	3300	130	--	--
DEC.										
03...	1045	9470	56	12.0	6.6	.0	5200	220	90	640
19...	1000	80000	46	12.8	6.6	.0	1200	100	100	1600
JAN.										
23...	1115	12500	65	11.0	6.5	.0	1000	65	120	11000
FEB.										
20...	1130	6600	58	11.4	6.5	.0	520	62	100	3000
MAR.										
20...	1115	21600	75	12.6	6.6	.0	430	54	150	4600
APR.										
22...	1100	30600	41	12.0	6.8	4.5	680	120	42	350
MAY										
30...	1145	29400	46	10.8	6.7	10.5	1800	60	110	5300
JUNE										
19...	1045	22600	60	7.7	6.8	19.0	7000	140	88	1500
JULY										
24...	1045	7600	60	5.8	6.8	21.0	17800	45	81	2600
AUG.										
27...	1130	5980	57	5.5	6.5	20.5	12000	99	36	1100
SEP.										
24...	1030	6360	69	5.1	6.4	14.0	11000	20	100	460

DATE	SUSPENDED SEDIMENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)
OCT.										
24...	6	83	111	.02	.01	.00	.00	.22	.23	1.0
DEC.										
03...	4	80	102	.01	.03	.02	.00	.15	.18	.80
19...	24	80	5180	.03	.10	.10	.00	.34	.45	2.0
JAN.										
23...	5	74	169	.02	.04	.04	.00	.36	.40	1.8
FEB.										
20...	6	66	107	.02	.06	.05	.01	2.5	2.6	11
MAR.										
20...	7	69	408	.04	.11	.11	.00	.25	.36	1.6
APR.										
22...	4	59	330	.02	.05	--	--	.22	.27	1.2
MAY										
30...	5	76	397	.01	.00	--	--	.96	.96	4.3
JUNE										
19...	10	82	610	.03	.00	--	--	.40	.40	1.8
JULY										
24...	7	90	144	.03	.01	--	--	.38	.39	1.7
AUG.										
27...	5	91	81	.02	.01	--	--	.22	.23	1.0
SEP.										
24...	9	85	155	.04	.02	--	--	.39	.41	1.8

† Note.--Composition of phytoplankton populations shown on page 107.

01034500 Penobscot River at West Enfield, Maine--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKA-LINITY AS CACO3 (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TUR-BID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
DEC. 03...	11	14	0	10	--	20	8	5.5	1.4	3.5
FEB. 20...	11	13	0	11	--	17	7	4.9	1.2	3.5
MAY 30...	11	13	0	7.8	2	17	6	5.3	.9	2.1
AUG. 27...	9	11	0	11	4	17	8	4.4	1.4	2.9

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SODIUM AD-SORP-TION RATIO
DEC. 03...	.5	3.1	8.3	.2	4.4	869	--	34	.05	.3
FEB. 20...	.6	2.6	11	.0	3.8	606	--	34	.05	.4
MAY 30...	.5	2.5	5.7	.7	2.9	2940	37	27	.05	.2
AUG. 27...	.6	2.2	8.6	.2	2.3	710	44	28	.06	.3

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
MAY 30...	<1	1	2	0	1	1	0	<10	<10	0
AUG. 27...	0	1	1	0	0	0	0	<10	<10	0

DATE	SUS-PENDED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)
MAY 30...	3	3	10	0	10	170	90	9	3	12
AUG. 27...	0	0	0	20	20	250	150	8	2	10

DATE	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY 30...	0	30	30	3	0	1	60	80	140
AUG. 27...	10	50	40	3	0	3	10	140	150

01034500 Penobscot River at West Enfield, Maine--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	DISSOLVED SOLIDS						SUSPENDED SOLIDS			
DATE	URANIUM (U) (UG/L)	RADIUM (RA-226) (PC/L)	GROSS A (U-NAT.) (UG/L)	GROSS B (SR90/Y90) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)	GROSS A (U-NAT.) (UG/L)	GROSS B (SR90/Y90) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)
DEC. 3...	.05	.02	< .8	2.0	2.5	52	< .4	< .4	< .4	2
APR. 22...	.05	.02	< .6	3.0	3.7	39	< .4	1.0	1.1	4

BIOLOGICAL DETERMINATIONS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PHYTOPLANKTON

DATE	CODOMINANTS	PERCENT COMPOSITION
DEC. 3...	LYNGBYA	95
19...	LYNGBYA	71
JAN. 23...	LYNGBYA	99
FEB. 20...	LYNGBYA	91
MAR. 20...	LYNGBYA	91
APR. 22...	ASTERIONELLA	23
	ANKISTRODESMUS	18
MAY 20...	LYNGBYA	95
	NITZSCHIA	2
	SYNEDRA	1
	DIATOMA	1
	STAURASTRUM	< 1
	TETRAEDRON	< 1
JUNE 19...	LYNGBYA	50
	FRAGILARIA	11
	SYNEDRA	8
	ACTINASTRUM	8
	ACHNANTHES	5
	TABELLARIA	4
	DINOBRYON	4
	NITZSCHIA	3
	ASTERIONELLA	3
	CYCLOTELLA	3
	HANNAEA	< 1
	DIATOMA	< 1

DATE	CODOMINANTS	PERCENT COMPOSITION
JULY 24...	LYNGBYA	68
	ANACYSTIS	7
	CRUCIGENIA	6
	CYCLOTELLA	5
	ACHNANTHES	4
	SYNEDRA	4
	SCENEDESMUS	3
	COCCONEIS	1
	STAURONEIS	1
	NAVICULA	< 1
	EUGLENA	< 1
AUG. 27...	LYNGBYA	38
	ANACYSTIS	15
	COSMARIUM	14
	CRUCIGENIA	14
	CYCLOTELLA	9
	SYNEDRA	4
	SCENEDESMUS	4
	COCCONEIS	2
	ACHNANTHES	< 1
	CLOSTERIUM	< 1
SEPT. 24...	SYNEDRA	16
	MELOSIRA	14
	SCENEDESMUS	14
	TABELLARIA	9
	TERPSINOE	9
	ACHNANTHES	7
	ASTERIONELLA	7
	NAVICULA	5
	COCCONEIS	5
	MERIDION	5
	CYCLOTELLA	5
	AMPHORA	2
	EUGLENA	2

PERIPHYTON

	BIOMASS		CHLOROPHYLL	
DATE	DRY WEIGHT (G/m^2)	ASH WEIGHT (G/m^2)	A (G/m^2)	B (G/m^2)
NOV. 7...	44	35	-	-
AUG. 27...	15	6.2	-	-
SEPT. 24...	6.2	4.6	.7	.8

BENTHIC INVERTEBRATES

DATE	IDENTIFICATION	TOTAL COUNT
DEC. 3...	EPHEMEROPTERA	2
	PLECOPTERA	4
	TRICHOPTERA	2

01034500 Penobscot River at West Enfield, Maine--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	57	53	55	65	54	56	57	55	56	72	49	53
2	58	52	56	65	55	58	59	55	57	62	56	59
3	59	54	57	57	54	55	59	57	58	65	54	60
4	55	52	53	58	56	56	70	59	65	56	54	55
5	56	52	54	58	55	57	71	63	66	56	53	55
6	55	49	51	58	55	56	66	59	61	58	53	55
7	50	47	49	57	53	55	61	54	57	57	53	55
8	54	47	51	56	55	56	57	53	55	57	55	56
9	52	48	49	57	54	55	59	52	55	57	55	56
10	58	50	55	56	53	55	61	58	59	64	54	60
11	57	45	52	56	50	54	73	59	66	60	57	58
12	54	44	49	54	49	52	83	74	78	60	57	58
13	66	53	60	59	54	55	89	83	86	60	57	59
14	68	63	66	75	60	69	90	88	89	57	56	56
15	80	64	71	79	73	76	90	85	88	57	55	56
16	78	63	68	73	61	67	88	85	86	60	57	58
17	75	63	69	60	57	58	89	85	86	61	56	59
18	82	52	71	58	56	58	86	48	77	60	54	57
19	50	46	48	58	53	56	68	43	54	62	54	57
20	48	41	44	60	57	58	51	41	47	63	58	61
21	47	40	43	59	53	57	41	39	40	---	---	---
22	50	45	47	57	50	54	46	40	43	---	---	---
23	55	45	50	60	56	58	46	43	45	---	---	---
24	58	53	55	59	57	58	52	46	49	66	60	62
25	56	53	55	59	56	58	52	50	51	67	59	63
26	56	54	55	59	57	58	51	48	50	66	63	64
27	62	53	57	57	55	56	53	49	51	68	66	67
28	58	53	56	62	55	59	65	48	52	73	68	70
29	58	54	56	61	56	58	49	46	48	73	65	68
30	60	56	58	59	55	57	50	47	48	69	64	67
31	59	55	57	---	---	---	50	47	49	70	66	68
MONTH	82	40	55	79	49	58	90	39	60	73	49	60

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	67	62	64	70	61	65	57	54	56	47	40	44
2	65	62	63	68	62	65	53	51	52	42	40	41
3	67	64	66	65	62	63	53	50	51	45	40	42
4	66	61	63	69	64	67	53	49	51	42	41	41
5	71	61	65	75	69	72	51	49	50	43	41	42
6	79	66	73	71	66	69	51	48	50	46	41	44
7	68	61	65	72	65	68	55	49	51	46	44	45
8	67	60	64	70	62	66	57	53	55	46	44	45
9	66	60	63	69	65	67	52	50	51	48	44	46
10	64	60	62	73	69	71	48	45	47	47	46	46
11	66	62	64	74	71	72	45	42	44	48	46	47
12	63	60	61	74	69	71	44	39	41	48	46	47
13	75	58	64	77	74	75	---	---	---	51	47	49
14	79	59	67	79	67	74	---	---	---	49	47	48
15	67	59	63	69	65	68	---	---	---	52	46	49
16	62	58	60	71	65	67	41	36	38	52	48	49
17	65	60	64	79	68	73	47	39	42	50	48	49
18	76	63	67	66	59	61	46	40	43	52	49	50
19	62	59	61	67	60	63	49	42	45	50	47	49
20	77	60	69	65	62	70	49	43	46	51	47	49
21	76	62	67	73	68	71	54	46	50	53	50	51
22	108	65	73	73	65	70	56	51	53	53	49	51
23	72	67	71	69	63	66	54	48	52	53	51	52
24	68	66	68	69	66	68	49	46	47	53	51	52
25	68	66	67	65	62	64	53	46	49	51	47	49
26	70	64	67	62	58	60	52	48	50	49	47	48
27	68	62	65	59	55	57	56	49	52	52	48	50
28	73	65	69	56	52	54	56	50	53	52	49	50
29	---	---	---	61	53	57	53	51	52	51	49	50
30	---	---	---	58	52	55	52	46	50	59	49	53
31	---	---	---	59	55	57	---	---	---	53	50	51
MONTH	108	58	66	79	52	66	57	36	49	59	40	48

01034500 Penobscot River at West Enfield, Maine--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	52	50	51	78	66	72	70	62	65	66	60	64
2	53	49	51	77	66	72	62	59	60	69	59	63
3	53	48	50	83	66	75	63	61	62	68	55	59
4	56	49	52	92	76	86	63	61	62	59	55	58
5	53	49	51	81	66	77	64	58	62	70	59	64
6	52	50	51	85	62	74	63	59	61	68	58	65
7	60	52	56	92	72	80	60	54	58	61	58	60
8	58	54	56	102	87	95	59	52	56	66	60	63
9	62	56	59	101	85	93	59	55	58	65	59	62
10	63	61	62	88	78	83	58	54	56	65	60	62
11	68	62	64	78	71	74	57	53	55	68	59	65
12	70	66	68	81	72	78	58	53	55	70	66	68
13	75	69	72	83	77	80	59	52	55	68	66	67
14	74	67	72	84	77	83	62	52	58	69	66	67
15	72	69	71	77	75	76	61	56	60	68	62	67
16	68	61	65	81	71	75	55	52	54	66	59	62
17	68	61	64	74	67	71	52	46	50	64	60	62
18	67	58	63	81	74	78	57	50	55	85	63	69
19	63	56	60	79	75	78	55	52	53	79	66	69
20	54	51	52	78	71	74	56	49	51	67	64	66
21	53	51	52	76	71	73	59	53	56	67	62	65
22	53	50	51	82	74	77	55	49	51	62	58	60
23	54	51	53	76	63	69	53	50	52	68	58	60
24	58	50	54	67	60	63	52	48	50	71	61	67
25	61	52	56	64	59	62	52	48	50	73	61	66
26	62	54	57	63	61	62	51	48	49	81	67	72
27	63	61	62	69	62	66	59	46	53	79	69	76
28	72	61	65	70	63	66	61	59	60	78	74	76
29	73	64	68	63	61	62	63	59	61	74	69	71
30	79	73	76	64	61	62	73	61	66	70	67	69
31	---	---	---	67	62	64	64	59	61	---	---	---
MONTH	79	48	59	102	59	74	73	46	57	85	55	65
YEAR	108	36	60									

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	12.5	13.5	8.0	7.5	8.0	0.5	0.0	0.0	0.0	0.0	0.0
2	14.0	13.0	13.5	8.0	7.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0
3	14.5	13.5	14.0	7.5	6.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0
4	14.5	14.0	14.0	6.5	5.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
5	14.0	13.0	13.5	5.0	3.5	4.5	1.5	0.5	0.5	0.0	0.0	0.0
6	12.5	12.0	12.5	3.5	2.5	3.0	2.5	1.5	2.0	0.0	0.0	0.0
7	12.0	11.0	11.5	2.5	2.0	2.5	2.5	0.5	1.5	0.0	0.0	0.0
8	12.0	11.0	11.5	2.5	2.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0
9	12.0	10.5	11.5	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
10	11.5	11.0	11.0	2.0	1.0	1.5	1.0	0.0	1.0	0.0	0.0	0.0
11	11.0	10.0	10.5	1.0	0.5	1.0	1.0	0.5	0.5	0.0	0.0	0.0
12	11.0	10.5	11.0	1.0	0.5	0.5	0.5	0.0	0.5	0.0	0.0	0.0
13	12.0	10.5	11.5	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
14	12.5	12.0	12.5	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
15	12.0	10.5	11.0	2.5	2.0	2.0	0.5	0.0	0.5	0.0	0.0	0.0
16	10.5	10.0	10.5	2.5	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
17	10.0	9.5	9.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
18	9.5	9.0	9.5	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
19	9.5	8.5	9.0	0.5	0.0	0.0	1.5	0.0	0.5	0.0	0.0	0.0
20	9.0	8.0	8.5	1.0	0.0	0.5	1.5	0.0	0.5	0.0	0.0	0.0
21	8.5	7.5	8.0	0.5	0.0	0.0	0.0	0.0	0.0	---	---	---
22	8.5	7.5	8.0	0.5	0.0	0.0	0.0	0.0	0.0	---	---	---
23	9.0	8.0	8.5	1.0	0.5	0.5	0.0	0.0	0.0	---	---	---
24	9.0	8.5	9.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
25	9.0	8.5	8.5	1.5	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
26	9.0	8.5	8.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
27	9.0	8.5	8.5	0.5	0.0	0.5	0.5	0.0	0.0	0.5	0.0	0.0
28	8.5	7.5	7.5	1.0	0.5	0.5	0.5	0.0	0.0	0.5	0.0	0.5
29	7.5	6.5	7.0	1.5	1.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0
30	8.0	7.0	7.5	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
31	8.5	8.0	8.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	14.5	6.5	10.5	8.0	0.0	2.0	2.5	0.0	0.0	0.5	0.0	0.0

01034500 Penobscot River at West Enfield, Maine--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.0	1.5	5.5	4.5	5.0
2	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	1.0	4.5	4.0	4.5
3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.5	1.5	5.0	4.0	4.5
4	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.5	2.0	5.0	4.5	4.5
5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.5	2.0	5.0	4.0	4.5
6	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.5	1.5	5.5	4.0	5.0
7	0.0	0.0	0.0	0.5	0.0	0.0	2.0	1.0	1.5	5.5	5.5	5.5
8	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.5	2.0	6.0	5.5	5.5
9	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.0	6.5	5.0	6.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0	6.0
11	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.0	6.5	6.0	6.0
12	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.5	2.5	6.5	6.0	6.5
13	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.5	2.0	7.5	6.5	7.0
14	0.0	0.0	0.0	0.5	0.0	0.0	2.5	1.5	2.0	8.0	7.0	7.5
15	0.0	0.0	0.0	0.5	0.0	0.0	3.5	2.5	3.0	10.0	7.5	8.5
16	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	11.0	9.5	10.0
17	0.0	0.0	0.0	0.5	0.0	0.0	3.5	2.0	2.5	11.0	10.5	10.5
18	0.0	0.0	0.0	0.5	0.0	0.0	4.0	3.0	3.5	11.0	10.0	10.5
19	0.0	0.0	0.0	0.5	0.0	0.0	4.0	3.0	3.5	10.5	9.5	10.0
20	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.0	3.5	10.5	9.5	10.0
21	0.0	0.0	0.0	0.5	0.0	0.0	5.0	3.5	4.5	11.0	10.0	10.5
22	0.5	0.0	0.0	0.0	0.0	0.0	5.0	4.5	4.5	11.0	10.5	10.5
23	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.5	4.5	10.5	10.0	10.5
24	0.0	0.0	0.0	1.0	0.0	0.5	4.5	2.5	3.5	10.0	9.5	9.5
25	0.0	0.0	0.0	0.5	0.0	0.5	3.5	2.0	2.5	9.0	8.5	9.0
26	0.0	0.0	0.0	0.5	0.0	0.0	4.0	2.5	3.0	8.5	8.0	8.5
27	0.0	0.0	0.0	0.5	0.0	0.5	5.5	3.5	4.5	9.0	8.0	8.5
28	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.0	5.5	9.5	8.5	9.0
29	---	---	---	0.5	0.0	0.0	6.0	5.5	5.5	10.5	9.0	10.0
30	---	---	---	0.5	0.0	0.5	6.5	5.5	6.0	11.5	10.5	11.0
31	---	---	---	1.0	0.5	1.0	---	---	---	13.0	11.0	12.0
MONTH	0.5	0.0	0.0	1.0	0.0	0.0	6.5	0.0	3.0	13.0	4.0	8.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	12.0	12.5	21.0	19.5	20.0	23.0	21.5	22.0	22.0	20.5	21.0
2	14.0	12.5	13.0	21.5	19.5	20.5	23.0	20.5	22.0	21.5	20.0	20.5
3	15.0	13.5	14.5	22.5	20.5	21.5	23.5	22.0	23.0	20.0	17.5	19.0
4	16.0	14.5	15.0	22.5	21.5	22.0	24.5	22.5	23.5	17.5	16.5	17.0
5	16.5	15.0	16.0	21.5	20.5	20.5	24.5	23.0	24.0	19.0	16.5	17.5
6	17.5	16.5	17.0	21.0	19.5	20.5	24.0	22.5	23.0	19.0	18.0	18.5
7	19.0	16.0	18.0	22.5	20.5	21.5	24.0	22.0	23.0	18.5	17.0	17.5
8	19.5	17.0	18.5	23.5	21.0	22.5	23.5	22.5	23.0	18.5	16.5	17.5
9	21.0	18.5	20.0	23.0	22.0	22.5	23.0	21.5	22.5	19.5	17.5	18.5
10	20.0	18.5	19.5	22.5	20.5	21.5	23.0	21.0	22.5	19.5	18.5	19.0
11	18.0	17.5	17.5	22.0	20.5	21.5	24.0	21.5	22.5	19.0	18.0	18.5
12	19.5	17.0	18.5	22.0	20.0	21.0	24.5	22.0	23.5	20.0	18.5	19.0
13	20.5	18.5	19.5	23.0	20.5	22.0	24.5	22.5	23.5	21.0	20.0	20.5
14	20.0	19.0	19.5	24.5	22.0	23.0	24.5	23.0	23.5	21.0	20.0	20.5
15	20.5	19.0	20.0	24.0	22.0	22.5	24.0	22.5	23.0	20.0	18.5	19.0
16	20.5	19.0	20.0	23.0	20.5	22.0	23.0	22.0	22.5	19.0	17.5	18.5
17	20.0	19.5	19.5	24.0	21.5	23.0	23.0	21.5	22.5	18.5	17.0	17.5
18	19.0	18.5	19.0	23.0	22.0	22.5	24.0	22.5	23.0	17.5	16.5	17.0
19	19.5	18.5	19.0	23.0	21.5	22.5	24.0	22.5	23.5	17.0	16.0	16.0
20	19.5	19.0	19.0	22.5	21.0	21.5	24.5	22.5	23.5	16.0	15.5	16.0
21	19.5	19.0	19.0	22.5	20.5	21.5	24.5	23.0	24.0	16.5	16.0	16.5
22	20.0	19.0	19.5	23.0	20.5	22.0	24.5	23.0	24.0	16.0	15.5	16.0
23	20.5	19.0	20.0	23.0	21.5	22.5	24.5	23.0	23.5	15.5	15.0	15.0
24	21.0	19.5	20.5	23.0	21.0	22.0	23.0	22.5	22.5	15.0	14.0	14.5
25	20.5	19.0	20.0	23.0	21.0	22.0	22.5	22.0	22.5	14.5	13.5	14.0
26	19.0	17.5	18.5	24.0	21.5	23.0	22.5	21.5	22.0	14.0	14.0	14.0
27	20.0	17.5	18.5	24.0	22.5	23.0	22.5	20.5	21.0	15.0	14.0	14.5
28	20.5	19.0	19.5	23.5	22.0	22.5	22.0	20.0	21.0	15.0	14.5	15.0
29	19.5	19.0	19.5	21.5	20.5	21.0	22.0	20.5	21.0	15.5	15.0	15.0
30	20.0	18.5	19.0	20.5	20.5	20.5	20.5	20.0	20.0	15.5	14.5	15.0
31	---	---	---	22.5	20.5	21.5	20.5	19.5	20.0	---	---	---
MONTH	21.0	12.0	18.5	24.5	19.5	22.0	24.5	19.5	22.5	22.0	13.5	17.0
YEAR	24.5	0.0	8.5									

01034500 Penobscot River at West Enfield, Maine--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	61	58	59	64	53	56
2	---	---	---	---	---	---	65	57	60	56	52	55
3	---	---	---	65	59	61	64	60	62	61	52	55
4	---	---	---	64	58	61	68	57	62	56	49	51
5	---	---	---	70	55	60	65	58	60	53	49	52
6	---	---	---	63	58	60	61	56	57	61	52	56
7	---	---	---	61	57	59	58	57	57	63	56	58
8	---	---	---	61	58	60	62	58	60	58	55	57
9	---	---	---	61	58	59	62	59	60	56	53	55
10	---	---	---	61	58	60	126	62	90	58	55	56
11	---	---	---	62	60	61	65	59	61	59	56	58
12	---	---	---	60	57	58	65	61	63	61	56	59
13	---	---	---	58	54	55	61	58	59	65	53	60
14	---	---	---	61	56	58	60	55	58	60	54	58
15	---	---	---	62	59	61	67	58	62	59	56	57
16	---	---	---	66	58	62	67	57	59	58	54	56
17	---	---	---	66	61	63	91	67	74	56	52	54
18	---	---	---	69	64	68	96	75	90	70	52	62
19	---	---	---	68	62	65	119	88	98	80	62	66
20	---	---	---	68	64	66	147	123	134	70	59	63
21	---	---	---	70	62	66	153	105	137	62	47	52
22	---	---	---	68	65	67	101	50	63	55	47	50
23	---	---	---	67	63	65	59	53	56	54	48	51
24	---	---	---	66	57	63	59	55	58	54	49	51
25	---	---	---	56	47	50	57	56	56	54	48	50
26	---	---	---	58	42	51	58	56	56	55	45	50
27	---	---	---	54	51	52	58	51	54	61	53	57
28	---	---	---	55	51	53	61	52	54	58	56	56
29	---	---	---	58	53	55	56	52	54	55	53	53
30	---	---	---	64	56	61	58	53	56	56	53	55
31	---	---	---	63	59	61	56	53	55	---	---	---
MONTH	---	---	---	70	42	60	153	50	67	80	45	56

01038000 Sheepscot River at North Whitefield, Maine

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, two-parameter monitor at gaging station on left bank at North Whitefield, just upstream from highway bridge, and 0.5 mi (0.8 km) downstream from Pleasant Pond Brook.

DRAINAGE AREA.--148 mi² (383 km²).

PERIOD OF RECORD.--Specific conductance: July 1974 - September 1974.
Water temperatures: October 1957 to September 1971; July 1974 to September 1974.

EXTREMES.--

Period of record:
Water temperatures: Maximum, 30°C July 29, 1963; minimum, freezing point on many days during winter months.

REMARKS.--Monitor located at station since July 15, 1974; recorder not operating August 13 to September 4, 1974.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 C) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	59	56	57	---	---	---
2	---	---	---	---	---	---	56	53	55	---	---	---
3	---	---	---	---	---	---	54	52	53	---	---	---
4	---	---	---	---	---	---	55	51	53	---	---	---
5	---	---	---	---	---	---	55	52	54	61	52	56
6	---	---	---	---	---	---	55	53	54	55	49	52
7	---	---	---	---	---	---	55	52	54	52	43	48
8	---	---	---	---	---	---	55	52	54	53	43	48
9	---	---	---	---	---	---	56	52	54	50	42	46
10	---	---	---	---	---	---	59	53	56	50	47	48
11	---	---	---	---	---	---	67	55	61	49	46	48
12	---	---	---	---	---	---	63	53	58	53	47	51
13	---	---	---	---	---	---	---	---	---	53	50	52
14	---	---	---	---	---	---	---	---	---	52	48	51
15	---	---	---	---	---	---	---	---	---	53	48	51
16	---	---	---	45	42	43	---	---	---	53	49	51
17	---	---	---	56	43	47	---	---	---	53	48	50
18	---	---	---	63	44	53	---	---	---	53	51	53
19	---	---	---	59	47	51	---	---	---	54	50	51
20	---	---	---	55	47	50	---	---	---	56	52	54
21	---	---	---	57	52	54	---	---	---	56	52	54
22	---	---	---	59	50	53	---	---	---	64	53	58
23	---	---	---	59	48	51	---	---	---	69	62	67
24	---	---	---	54	47	50	---	---	---	58	54	56
25	---	---	---	55	49	52	---	---	---	55	51	53
26	---	---	---	61	50	53	---	---	---	60	53	56
27	---	---	---	56	49	52	---	---	---	63	51	57
28	---	---	---	58	49	52	---	---	---	61	54	57
29	---	---	---	56	50	53	---	---	---	63	51	57
30	---	---	---	56	52	54	---	---	---	71	60	66
31	---	---	---	59	54	56	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	71	42	54
PERIOD	71	42	53									

01038000 Sheepscot River at North Whitefield, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	21.5	19.5	20.5	---	---	---
2	---	---	---	---	---	---	22.5	20.0	21.0	---	---	---
3	---	---	---	---	---	---	23.5	21.5	22.5	---	---	---
4	---	---	---	---	---	---	24.5	22.5	23.5	---	---	---
5	---	---	---	---	---	---	25.0	22.5	23.5	16.5	13.0	15.0
6	---	---	---	---	---	---	24.0	21.5	22.5	17.0	15.0	16.0
7	---	---	---	---	---	---	23.0	20.5	22.0	17.0	15.0	16.0
8	---	---	---	---	---	---	24.0	20.5	22.0	17.5	15.0	16.0
9	---	---	---	---	---	---	24.0	21.0	22.5	20.0	16.0	18.0
10	---	---	---	---	---	---	23.0	20.0	21.5	19.5	18.5	19.0
11	---	---	---	---	---	---	23.0	19.5	21.0	19.0	18.5	19.0
12	---	---	---	---	---	---	24.0	20.0	22.0	21.0	18.5	20.0
13	---	---	---	---	---	---	---	---	---	22.5	20.0	21.5
14	---	---	---	---	---	---	---	---	---	22.5	20.0	21.5
15	---	---	---	---	---	---	---	---	---	20.0	17.5	19.0
16	---	---	---	24.0	19.5	22.5	---	---	---	19.0	17.0	18.0
17	---	---	---	24.5	20.5	22.5	---	---	---	18.0	16.0	17.0
18	---	---	---	24.5	21.0	23.0	---	---	---	19.0	16.5	17.5
19	---	---	---	24.0	22.0	23.0	---	---	---	16.5	15.5	16.0
20	---	---	---	22.5	20.5	21.0	---	---	---	17.0	15.5	16.5
21	---	---	---	21.0	18.5	20.0	---	---	---	17.5	17.0	17.0
22	---	---	---	22.5	19.0	21.0	---	---	---	17.5	16.5	16.5
23	---	---	---	23.0	20.0	21.5	---	---	---	16.5	14.5	15.5
24	---	---	---	22.0	19.5	20.5	---	---	---	15.0	13.0	14.0
25	---	---	---	22.5	19.5	21.0	---	---	---	13.5	12.0	13.0
26	---	---	---	23.0	20.0	21.5	---	---	---	15.0	13.0	13.5
27	---	---	---	23.0	20.5	22.0	---	---	---	15.5	13.0	14.0
28	---	---	---	22.5	20.0	21.0	---	---	---	16.0	14.5	15.0
29	---	---	---	20.0	19.0	19.5	---	---	---	17.0	15.5	16.0
30	---	---	---	19.0	18.5	18.5	---	---	---	16.5	14.5	15.5
31	---	---	---	21.0	18.0	19.5	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	22.5	12.0	17.0

01046500 Kennebec River at Bingham, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, at gaging station on right bank at Bingham, 200 feet (61 m) downstream from highway bridge, 0.4 mi (0.6 km) downstream from Austin Stream, and 1.6 miles (2.6 km) downstream from Wyman Dam.

DRAINAGE AREA.--2,720 mi^2 (7,045 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 24...	1400	4140	40	9.5	6.6	10.0	13	2	--	--	--
DEC. 03...	1400	4240	42	11.2	6.7	2.0	13	3	10	12	0
26...	1315	16900	38	13.4	6.5	.5	31	2	--	--	--
JAN. 23...	1500	6490	39	12.4	6.7	.0	23	0	--	--	--
FEB. 20...	1530	6990	34	13.0	6.6	.5	1	0	5	6	0
MAR. 20...	1515	4850	57	11.4	6.7	1.0	15	1	--	--	--
APR. 22...	1530	10300	39	13.0	6.7	2.5	15	0	--	--	--
MAY 30...	1515	8760	33	11.8	6.6	7.5	8	1	7	9	0
JUNE 19...	1345	12100	34	9.7	6.8	14.5	550	340	--	--	--
JULY 24...	1415	4790	36	7.3	6.6	19.0	240	6	--	--	--
AUG. 28...	1215	7400	36	7.4	6.6	20.5	760	2	7	9	0
SEP. 24...	1500	5950	34	8.4	6.4	16.5	3	1	--	--	--

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC. 03...	15	5	4.0	1.1	1.5	.4	1.1	5.2	.3	4.1	.00
FEB. 20...	12	7	3.0	1.0	1.0	.3	1.2	5.9	.1	3.5	.00
MAY 30...	15	8	4.5	1.0	1.5	.4	.9	5.6	.0	3.7	.01
AUG. 28...	16	8	4.8	.9	1.0	.7	1.6	4.3	.2	3.0	.01

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SODIUM ADSORPTION RATIO	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
DEC. 03...	.19	.00	.09	.09	.10	.80	160	20	.2	24	275
FEB. 20...	--	.00	.15	.15	--	--	190	20	.1	19	403
MAY 30...	--	--	--	--	--	--	230	10	.2	23	544
AUG. 28...	--	--	--	--	--	--	110	20	.1	21	420

01054200 Wild River at Gilead, Maine

(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, temperature recorder at gaging station on left bank at upstream side of highway bridge on U.S. Route 2, 1,800 ft (550 m) upstream from mouth, and 0.4 mi (0.6 km) west of Gilead.

DRAINAGE AREA.--69.5 mk^2 (180 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1967 to September 1974.
Water temperatures: July 1964 to September 1974.

EXTREMES, 1973-74.--Water temperatures: Maximum, 24.5 °C July 14; minimum, freezing point on many days during January to April.

EXTREMES, 1964-74.--Water temperatures: Maximum, 29.0°C one day in August 1965; minimum, freezing point on many days during winter months.

REMARKS.--Temperature recorder inoperative Oct. 19 to Nov. 19, Dec. 25-28.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT. 30...	1200	425	25	10.0	6.4	7.0	7	100	8.0	--	--	--
NOV. 28...	1030	125	30	11.4	6.6	2.5	1	100	.34	1	0	1
DEC. 28...	1330	397	28	12.0	6.5	.5	1	100	1.1	--	--	--
JAN. 30...	1215	145	24	13.0	6.5	.0	1	100	.39	15	0	1
FEB. 26...	1030	220	30	12.0	6.3	.0	3	100	1.8	--	--	--
MAR. 27...	1200	120	30	12.6	6.4	.0	1	100	.32	9	0	0
APR. 26...	1345	425	22	12.8	6.2	3.5	7	100	8.0	--	--	--
MAY 23...	1130	660	20	12.2	6.1	7.0	9	100	16	1000	19	30
JUNE 24...	1045	105	19	9.6	6.6	15.5	1	100	.28	--	--	--
JULY 29...	1230	74	25	9.4	6.7	19.0	2	100	.40	1400	43	52
AUG. 22...	1115	21	23	9.2	6.9	20.0	4	100	.23	--	--	--
SEP. 30...	1230	152	23	10.4	6.5	11.5	17	13	7.0	1500	4	78

DATE	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DISSOLVED POTASSIUM (K) (MG/L)
NOV. 28...	1.6	3	4	0	6	3	1.5	.6	1.8	.3	37	.4
JAN. 30...	.0	0	0	0	6	6	1.4	.5	1.0	.2	27	.3
MAR. 27...	3.2	4	5	0	5	1	1.5	.4	.9	.2	25	.4
MAY 23...	5.1	3	4	0	6	3	1.7	.4	1.1	.2	28	.2
JULY 29...	4.8	12	15	0	10	0	3.0	.6	1.6	.2	25	.5
SEP. 30...	1.5	2	3	0	10	8	3.5	.3	.7	.1	12	.7

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
NOV. 28...	.6	4.3	.2	6.0	.00	.00	.03	.03	29	17	9.79
JAN. 30...	.4	3.5	.1	4.9	.00	.00	.07	.07	12	12	4.70
MAR. 27...	.5	4.3	.1	5.5	.01	.01	.07	.08	22	16	7.13
MAY 23...	.9	4.7	.2	4.4	.02	--	--	.04	23	16	41.0
JULY 29...	.9	4.8	.1	6.5	.01	--	--	.05	30	25	5.99
SEP. 30...	.4	4.1	.2	6.2	.00	--	--	.01	25	18	10.3

01054200 Wild River at Gilead, Maine--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAR. 27...	1	0	0	10	70	3	20	<.5	1	0	20
SEP. 30...	0	0	0	0	0	2	10	<.5	2	0	140

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	DISSOLVED SOLIDS						SUSPENDED SOLIDS			
DATE	URANIUM (U) (UG/L)	RADIUM (RA-226) (PC/L)	GROSS A (U-NAT.) (UG/L)	GROSS B (SR90/Y90) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)	GROSS A (U-NAT.) (UG/L)	GROSS B (SR90/Y90) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)
SEPT. 30...	.04	.11	.5	1.6	1.9	26	< .4	< .4	< .4	1

PESTICIDES ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WATER

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
SEPT. 30...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	TOX-APHENE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
SEPT. 30...	.00	.00	.00	.00	.0	0	.00	.00	.00

BOTTOM DEPOSITS

DATE	ALDRIN (UG/KG)	CHLOR-DANE (UG/KG)	DDD (UG/KG)	DDE (UG/KG)	DDT (UG/KG)	DI-AZINON (UG/KG)	ENDRIN (UG/KG)	HEPTA-CHLOR (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/KG)	LINDANE (UG/KG)
SEPT. 30...	.0	0	.0	.0	.0	.0	.0	.0	.0	.0

DATE	PCB (UG/KG)	TOX-APHENE (UG/KG)
SEPT. 30...	0	0

01054200 Wild River at Gilead, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	6.5	---	---	3.0	1.0	0.5	0.5	0.0	0.0	0.5	0.5
2	12.0	8.5	---	---	1.0	1.0	0.5	0.5	0.0	0.0	0.5	0.5
3	14.0	11.5	---	---	1.0	1.0	0.5	0.5	0.0	0.0	0.5	0.5
4	14.5	12.0	---	---	1.0	1.0	0.5	0.5	0.0	0.0	0.5	0.5
5	14.0	11.0	---	---	1.5	1.0	0.5	0.0	0.0	0.0	0.5	0.5
6	11.0	9.5	---	---	4.5	1.5	0.0	0.0	0.0	0.0	0.5	0.0
7	10.5	8.5	---	---	4.0	1.5	0.0	0.0	0.0	0.0	0.5	0.0
8	10.5	7.0	---	---	1.5	1.0	0.0	0.0	0.0	0.0	0.5	0.5
9	10.5	7.0	---	---	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.5
10	9.5	8.5	---	---	3.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
11	9.5	6.5	---	---	3.0	2.0	0.0	0.0	0.0	0.0	1.0	1.0
12	10.0	7.0	---	---	2.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
13	11.0	9.0	---	---	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
14	11.5	10.0	---	---	2.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
15	10.5	9.0	---	---	3.5	1.5	0.0	0.0	0.0	0.0	1.0	1.0
16	9.5	8.0	---	---	1.5	1.0	0.0	0.0	0.0	0.0	1.0	1.0
17	8.0	6.5	---	---	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
18	7.0	6.0	---	---	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
19	---	---	---	---	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
20	---	---	0.5	0.5	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
21	---	---	0.5	0.5	2.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
22	---	---	1.0	0.5	2.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
23	---	---	3.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
24	---	---	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.5
25	---	---	3.0	3.0	---	---	0.0	0.0	0.0	0.0	0.5	0.0
26	---	---	3.0	1.5	---	---	0.0	0.0	0.5	0.0	0.0	0.0
27	---	---	2.0	1.5	---	---	0.0	0.0	0.5	0.5	0.0	0.0
28	---	---	3.5	2.0	---	---	0.0	0.0	0.5	0.5	0.0	0.0
29	---	---	3.5	3.0	0.5	0.5	0.0	0.0	---	---	0.0	0.0
30	---	---	3.0	2.0	0.5	0.5	0.0	0.0	---	---	0.0	0.0
31	---	---	---	---	0.5	0.5	0.0	0.0	---	---	0.0	0.0
MONTH	---	---	---	---	4.5	0.5	0.5	0.0	0.5	0.0	1.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	6.5	3.5	11.5	8.5	16.0	14.0	21.5	16.5	19.0	15.5
2	0.0	0.0	5.5	1.0	12.0	9.5	16.0	13.5	21.0	17.0	17.0	15.0
3	0.0	0.0	5.0	3.0	15.0	9.5	20.0	15.0	23.5	19.0	15.0	13.0
4	0.0	0.0	5.0	4.0	15.0	10.5	19.0	16.5	23.0	20.0	13.0	11.0
5	0.0	0.0	7.0	2.0	17.0	11.0	16.5	14.5	20.5	18.5	14.5	10.0
6	0.0	0.0	7.0	3.5	16.0	13.5	18.5	14.0	21.5	16.5	13.5	11.0
7	1.0	0.0	5.5	4.0	16.5	11.0	20.5	15.0	22.0	17.0	15.5	11.5
8	3.0	0.5	7.0	3.5	17.0	10.5	21.5	17.0	21.5	17.0	16.5	12.0
9	1.0	0.0	7.0	4.5	19.5	14.0	20.5	17.0	22.0	18.5	17.0	13.5
10	0.0	0.0	6.5	4.0	19.0	16.5	19.0	16.0	23.0	16.5	16.0	15.0
11	1.0	0.0	7.0	4.0	18.5	15.5	19.0	15.5	23.5	16.0	17.0	14.5
12	2.0	0.0	6.5	5.0	18.0	14.0	19.0	15.5	24.0	16.5	18.0	15.5
13	1.5	0.5	6.0	4.0	18.5	13.5	22.0	16.0	23.5	18.0	19.5	16.5
14	6.0	1.0	9.0	5.0	15.0	13.0	24.5	19.0	24.0	19.5	18.5	15.5
15	3.0	1.0	13.0	6.5	18.0	12.0	23.0	20.0	23.0	17.0	16.0	12.0
16	2.0	1.0	11.5	9.0	14.5	11.5	21.0	19.0	22.0	15.5	16.0	13.0
17	5.5	1.0	10.0	8.5	11.5	10.5	21.5	16.0	21.0	16.0	15.0	10.0
18	4.5	1.5	11.0	8.0	14.0	10.5	21.5	18.0	20.5	16.5	16.0	13.5
19	5.0	1.0	11.0	6.5	13.0	10.5	20.5	18.5	23.0	16.5	14.5	11.0
20	5.5	1.0	11.5	6.5	15.5	12.0	19.5	17.0	23.5	17.0	16.0	13.0
21	5.5	1.5	10.0	7.0	13.5	12.0	20.5	15.5	23.5	18.0	15.0	14.0
22	3.5	2.0	9.0	8.0	15.5	12.0	20.5	16.0	23.0	18.0	14.0	12.0
23	3.5	2.0	8.5	6.0	16.0	13.0	20.5	17.0	19.5	18.0	13.0	10.5
24	2.0	1.0	6.0	5.5	17.0	14.0	21.0	16.5	20.5	18.0	11.0	8.0
25	5.5	1.0	7.0	6.0	15.5	13.5	21.5	17.0	21.5	16.5	15.0	7.0
26	3.5	1.5	7.0	6.0	14.5	11.0	21.5	17.0	19.5	15.5	10.0	8.5
27	7.0	1.5	7.0	6.0	12.0	10.5	20.5	19.0	19.5	16.5	13.0	9.0
28	6.5	3.0	8.5	6.5	15.5	10.5	19.5	18.5	21.0	18.0	13.0	10.5
29	4.5	3.5	8.0	7.0	14.5	12.0	19.5	18.0	19.0	16.0	14.0	13.0
30	7.0	4.0	8.0	6.5	16.0	12.0	18.5	17.0	16.0	14.5	14.0	10.0
31	---	---	8.5	7.0	---	---	20.0	16.5	18.0	13.5	---	---
MONTH	7.0	0.0	13.0	1.0	19.5	8.5	24.5	13.5	24.0	13.5	19.5	7.0
YEAR	24.5	0.0										

01055100 Androscoggin River at Jay, Maine

LOCATION.--Lat 44°30'06", long 70°13'02", Franklin County, at highway bridge 0.3 mi (0.5 km) downstream from dam, 2 mi (3 km) downstream from Sevenmile Stream, 0.5 mi (0.8 km) upstream from Mosquito Brook, and at Jay.

DRAINAGE AREA.--2,420 mi^2 (6,270 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1973 to June 1974 (discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPER-ATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)
OCT. 23...	1300	2520	140	9.8	7.3	8.5	6500	110	.00	.22	.23	.04
MAY 15...	1400	17900	38	11.0	6.6	10.0	600	26	.01	.14	.22	.04
JULY 01...	1430	3940	85	8.0	6.8	19.0	9400	20	.01	.00	.16	.19

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	OIL AND GREASE (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO-PHYLL A (UG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	SUS-PENDED SOLIDS (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 23...	.27	.49	.04	--	37	2	14	5.6	58	--	--
MAY 15...	.26	.41	.03	8	30	0	5.6	3.9	20	17	35
JULY 01...	.35	.35	.04	20	50	0	11	1.0	33	20	68

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	DISSOLVED SOLIDS			SUSPENDED SOLIDS		
DATE	GROSS A (U-NAT.) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)	GROSS A (U-NAT.) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)
OCT. 23...	< 2.0	2.7	146	< 2.0	< 1.0	6

01059000 Androscoggin River near Auburn, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, at gaging station on right bank 1.5 miles (2.4 km) downstream from Little Androscoggin River and 2.1 miles (3.4 km) downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 mi^2 (8,436 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.											
17...	1345	2100	122	9.1	6.6	11.5	72000	6200	--	--	--
NOV.											
28...	1345	6480	100	11.2	6.8	3.0	48000	5300	15	18	0
DEC.											
20...	1115	27000	46	13.2	6.5	.0	5500	2500	--	--	--
JAN.											
24...	1245	7560	125	13.2	6.7	.0	21000	3700	--	--	--
FEB.											
26...	1430	6270	80	13.0	6.6	.0	21000	1600	8	10	0
MAR.											
21...	1400	10500	55	12.8	6.6	.5	12000	1000	--	--	--
MAY											
01...	1400	23600	56	11.0	6.8	10.5	19000	900	--	--	--
29...	1530	18800	50	11.8	6.8	10.0	14000	550	8	10	0
JUNE											
24...	1445	7340	57	9.1	6.9	20.0	36000	1700	--	--	--
JULY											
25...	1500	5400	120	8.2	6.8	23.0	61000	5900	--	--	--
AUG.											
22...	1415	3830	145	6.3	6.7	24.0	78000	3800	20	24	0
SEP.											
30...	1530	5500	119	9.1	6.8	15.0	29000	1900	--	--	--

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
NOV.										
28...	20	5	6.0	1.1	7.0	1.3	9.2	7.9	.3	6.7
FEB.										
26...	13	5	4.1	.7	4.6	.9	7.6	6.0	.1	4.3
MAY										
29...	15	6	4.5	.8	3.6	.8	4.4	6.2	.1	4.5
AUG.										
22...	26	6	8.5	1.1	15	.6	17	14	.3	4.3

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SODIUM ADSORPTION RATIO	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
NOV.									
28...	.04	.00	.19	.20	570	40	.7	48	840
FEB.									
26...	.04	.01	.24	.25	250	20	.6	33	559
MAY									
29...	.02	--	--	--	530	30	.4	30	1520
AUG.									
22...	.05	--	--	--	780	90	1.3	73	755

01064140 Presumpscot River near West Falmouth, Maine

LOCATION.--Lat 43°43'28", long 70°18'12", Cumberland County, 0.6 mi (1.0 km) downstream from Meader Brook, 0.9 mi (1.4 km) upstream from Piscataqua River, 0.1 mi (0.2 km) downstream from Maine Turnpike, at highway bridge 1.5 mi (2.4 km) south of West Falmouth.

DRAINAGE AREA.--590 mi² (1,530 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1973 to June 1974 (discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISCHARGE (CFS)	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT. 25...	1200	846	5.0	130	8.2	6.4	10.0	470000	1700	.00	.00
NOV. 27...	1215	878	4.0	105	10.2	6.8	5.5	11000	900	.00	.00
DEC. 18...	1215	2560	8.0	60	12.0	6.6	1.0	11000	1300	.01	.21
JAN. 31...	1315	1310	5.0	90	12.8	6.6	1.5	9800	1400	.00	.17
FEB. 21...	1245	1080	--	92	12.8	6.7	1.0	16000	1000	.01	.24
MAR. 25...	1445	1210	--	83	12.6	6.6	2.0	44000	3700	.01	.16
APR. 23...	1200	1760	--	70	10.2	6.9	8.0	40000	1400	.01	.15
MAY 16...	1200	2060	--	72	10.6	6.9	11.5	78000	1700	.02	.08
JUNE 25...	1315	1440	--	70	7.4	6.8	20.0	430000	8800	.01	.03

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	OIL AND GREASE (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLOROPHYLL A (UG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	SUSPENDED SOLIDS (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT. 25...	.00	.23	.03	--	37	0	8.4	2.2	34	--	80
NOV. 27...	.00	.00	.04	--	12	0	7.5	--	30	9	83
DEC. 18...	.22	.07	.07	15	33	0	7.4	1.9	21	--	--
JAN. 31...	.17	.08	.03	7	27	0	5.5	2.6	24	15	41
FEB. 21...	.25	.14	.05	10	7	0	7.0	4.3	27	19	56
MAR. 25...	.17	.19	.05	13	31	0	7.0	4.8	27	18	69
APR. 23...	.16	.23	.02	5	20	0	--	3.0	22	8	45
MAY 16...	.10	.02	.02	20	20	0	5.5	.0	22	8	312
JUNE 25...	.04	.06	.03	6	20	0	5.7	2.6	22	16	244

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	DISSOLVED SOLIDS			SUSPENDED SOLIDS		
DATE	GROSS A (U-NAT.) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)	GROSS A (U-NAT.) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)
OCT. 25...	< 2.0	3.0	70	< 2.0	< 1.0	4

01064170 Portland Harbor at Fore River bridge, Portland, Maine

LOCATION.--Lat 43°38'43", long 70°15'32", Cumberland County, at most easterly bridge between Portland and South Portland over the Fore River in harbor at Portland.

PERIOD OF RECORD.--Chemical analyses: July 1973 to June 1974 (discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	DIS_SOLVED NITRITE (NO2) (MG/L)	DIS_SOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
25...	1030	20	42500	7.2	7.9	9.5	8400	230	.00	.00	.00
NOV.											
27...	1030	15	40000	6.6	7.9	5.5	1900	380	--	--	--
DEC.											
18...	1030	18	27500	8.2	7.8	3.0	--	--	--	--	--
JAN.											
31...	1130	15	42500	8.4	8.0	3.0	2400	360	--	--	--
FEB.											
21...	1100	--	40000	8.4	7.6	2.0	3800	220	--	--	--
MAR.											
25...	1230	--	37500	8.2	7.8	2.5	1400	180	--	--	--
APR.											
23...	1030	--	40400	8.0	7.7	6.0	1800	110	--	--	--
MAY											
16...	1030	--	32500	7.0	7.9	9.0	9400	1100	--	--	--
JUNE											
25...	1115	--	35000	6.2	7.8	14.5	2700	170	--	--	--

DATE	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	OIL AND GREASE (MG/L)	SUSPENDED SOLIDS (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.											
25...	.00	.00	--	.33	.05	0	3	0	--	3070	--
NOV.											
27...	--	--	.31	--	.05	10	2	0	13	41	--
DEC.											
18...	--	--	--	--	.08	15	14	0	--	22300	11
JAN.											
31...	--	--	.12	--	.04	4	5	0	9	30000	8
FEB.											
21...	--	--	.14	--	.05	4	2	0	7	3170	--
MAR.											
25...	--	--	.15	--	.03	2	4	0	8	32300	--
APR.											
23...	--	--	.27	--	.04	1	2	0	6	30800	--
MAY											
16...	--	--	.68	--	.06	2	2	0	5	30500	--
JUNE											
25...	--	--	.05	--	.06	3	2	0	17	31200	--

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DISSOLVED SOLIDS			SUSPENDED SOLIDS		
	GROSS A (U-NAT.) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)	GROSS A (U-NAT.) (PC/L)	GROSS B (CS-137) (PC/L)	SOLIDS (MG/L)
OCT.						
25...	< 2.0	125	24,000	< 2.0	5.2	463

CHEMICAL ANALYSES OF FIELD-MEASURED SAMPLES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	STATION NAME AND LOCATION	DRAINAGE AREA (SQ MI)	DATE SAMPLED	TIME	DISCH-ARGE (CFS)	DISCH-ARGE DUR-ATION (%)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS AT 25° C)	DISS-OLVED OXYGEN (MG/L)	PH (UNITS)	TEM-PERA-TURE (°C)
	ST. JOHN RIVER BASIN									
01010500	St. John River at Dickey, Me.	2,700	09-17-74	1430	2,880	37	64	9.6	6.9	14.5
01011000	Allagash River near Allagash, Me.	1,250	09-17-74	1400	866	51*	60	10.2	7.4	14.5
01013500	Fish River near Fort Kent, Me.	871	09-17-74	1545	379	71	67	10.2	7.4	15.0
01014000	St. John River at Fort Kent, Me.	5,690	09-18-74	0930	4,200	52	75	9.8	7.2	12.5
01015800	Aroostook River near Masardis, Me.	888	09-18-74	1615	362	75*	63	10.2	7.0	14.5
01016500	Machias River near Ashland, Me.	330	09-18-74	1545	191	52	60	10.0	7.4	14.5
01017900	Marley Brook near Ludlow, Me.	1.47	09-18-74	1800	0.14	-	150	10.0	7.4	10.0
	ST. CROIX RIVER BASIN									
01019000	Grand Lake Stream at Grand Lake Stream, Me.	224	09-26-74	1245	818	10*	26	10.0	6.8	15.5
01020000	St. Croix River near Baileyville, Me.	1,320	09-26-74	1330	1,210	81*	35	8.9	6.8	14.5
	DENNYS RIVER BASIN									
01021200	Dennys River at Dennysville, Me.	92.4	09-16-74	1310	41	85*	40	9.0	6.8	17.5
	NARRAGUAGUS RIVER BASIN									
01022500	Narraguagus River at Cherryfield, Me.	232	09-16-74	1130	99	79	35	8.3	6.7	18.5
	UNION RIVER BASIN									
01023000	W. Br. Union River at Amherst, Me.	148	09-16-74	1015	56	76	34	9.6	6.9	15.5
	PENOBSCOT RIVER BASIN									
01031500	Piscataquis River near Dover-Foxcroft, Me.	297	09-24-74	1345	95	79*	48	10.7	7.0	13.5
01031600	Morrison Brook near Sebec Corners, Me.	4.37	09-10-74	1200	0.76	-	140	9.5	7.9	15.5
01033500	Pleasant River near Milo, Me.	324	09-10-74	1230	164	82*	33	9.1	6.9	18.0
01036500	Kenduskeag Stream near Kenduskeag, Me.	178	09-10-74	1500	33	74	150	10.0	8.5	17.0
	SHEEPSCOT RIVER BASIN									
01038000	Sheepscot River at North Whitefield, Me.	148	09-09-74	1100	105	56*	48	8.5	6.8	17.5
	KENNEBEC RIVER BASIN									
01042500	Kennebec River at The Forks, Me.	1,589	08-28-74	1130	7,150	3*	32	8.7	6.8	20.5
01045000	Dead River at The Forks, Me.	872	08-28-74	1100	1,450	38*	35	9.1	6.9	20.5
01047000	Carrabassett River near North Anson, Me.	354	08-28-74	1345	137	68*	44	9.0	7.0	22.5
01048000	Sandy River near Mercer, Me.	514	08-28-74	1500	305	60	80	9.7	7.8	22.5
01049300	No. Br. Tanning Brook near Manchester, Me.	0.93	09-25-74	1300	0.31	-	83	10.6	7.2	11.0
	ANDROSCOGGIN RIVER BASIN									
01054300	Ellis River at South Andover, Me.	131	09-30-74	1045	238	-	33	9.8	6.6	11.5
01055000	Swift River near Roxbury, Me.	95.8	09-30-74	1000	302	17	28	10.8	6.6	10.5
01055500	Nezinscot River at Turner Center, Me.	171	09-11-74	1000	80	69	52	8.9	6.8	16.0
01057000	Little Androscoggin River near South Paris, Me.	76.2	08-22-74	1315	20	81	46	9.0	6.9	22.0
	ROYAL RIVER BASIN									
01060000	Royal River at Yarmouth, Me.	142	09-11-74	1400	66	72*	110	9.9	7.0	15.5
	SACO RIVER BASIN									
01066000	Saco River at Cornish, Me.	1,298	09-11-74	1230	1,440	56*	38	8.8	6.6	18.0
01066500	Little Ossipee River near South Limington, Me.	161	09-11-74	1200	250	38*	42	8.0	6.7	18.5

Note.--All samples taken at stream gaging stations. See Part 1 for complete description of location including latitude and longitude.
* Flow regulated.

MISCELLANEOUS ANALYSES OF GROUND WATER IN MAINE

CHEMICAL ANALYSES IN MILLIGRAMS PER LITRE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WELL NUMBER	DATE	LOCAL NUMBER	TOWN	DEPTH OF WELL (FT)	WATER-BEARING UNIT A/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED SILICA (SIO2)	DISSOLVED CALCIUM (CA)
464619068280401	06-04-74	AR 1	PORTAGE	8	T	120	6.7	7.0	5.6	14
465826067501301	09-05-73*	AR 51	CASWELL	110	L	506	7.9	-	7.5	79
465826067501301	03-11-74	AR 51	CASWELL	110	L	505	7.8	-	7.9	76
465821067500401	09-05-73*	AR 52	CASWELL	110	L	458	7.8	-	7.1	79
434532070125501	06-06-74	C 219	CUMBERLAND	245	B	240	6.7	14.0	13	19
434958070175501	06-06-74	C 220	CUMBERLAND	382	B	140	7.7	-	13	12
434957070175801	06-06-74	C 221	CUMBERLAND	20	T	95	7.1	8.0	12	8.0
434644070230501	06-06-74	C 331	WINDHAM	96	B	375	6.7	13.0	17	26
435203070055701	06-05-74	C 344	FREEPORT	27	O	310	6.6	8.5	14	18
434922070050501	06-05-74	C 366	FREEPORT	245	B	250	7.8	15.5	18	20
435008070242501	06-05-74	C 367	WINDHAM	24	O	110	6.5	15.5	12	11
434943070283401	06-06-74	C 368	STANDISH	-	B	140	6.3	15.5	7.7	9.1
434758070272401	07-22-74	C 369	GORHAM	72	I	88	5.9	7.5	13	7.5
434906070175501	06-06-74	C 370	CUMBERLAND	23	O	85	6.9	7.0	7.7	7.5
450530069054001	01-11-74	PE 442	CHARLESTON	236	B	177	7.9	-	8.1	22
450530069054001	02-13-74	PE 442	CHARLESTON	236	B	188	7.4	-	8.3	24
450530069054002	01-11-74	PE 443	CHARLESTON	236	B	208	7.8	-	8.4	26
450530069054002	02-13-74	PE 443	CHARLESTON	236	B	212	7.4	-	8.6	27
444219069545801	06-04-74	SM 1	MERCER	14	E	170	6.9	6.0	5.6	17
443740067234801	09-17-73*	W 201	MACHIASPORT	175	B	357	7.9	4.0	13	22
443740067234801	01-23-74	W 201	MACHIASPORT	175	B	327	7.1	-	11	43
443751067234001	09-17-73*	W 202	MACHIASPORT	350	B	284	7.7	4.0	19	38
443751067234001	01-23-74	W 202	MACHIASPORT	350	B	485	8.1	-	13	28
443744067233504	09-17-73*	W 207A	MACHIASPORT	270	B	343	8.0	4.0	11	41
443905067233001	01-23-74	W 773	MACHIASPORT	325	B	282	7.4	-	19	40
434822070482501	06-05-74	Y 1	CORNISH	24	O	210	7.0	10.5	5.1	19

WELL NUMBER	DATE	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA)	DISSOLVED POTASSIUM (K)	BICARBONATE (HCO3)	CARBONATE (CO3)	DISSOLVED SULFATE (SO4)	DISSOLVED CHLORIDE (CL)	DISSOLVED FLUORIDE (F)	TOTAL PHOSPHORUS (P)	TOTAL IRON (FE) (UG/L)
464619068280401	06-04-74	3.2	1.6	0.4	45	0	9.2	0.8	0.0	0.01	90
465826067501301	09-05-73*	8.7	10	.5	133	0	57	38	.2	-	40
465826067501301	03-11-74	9.1	9.0	.3	132	0	52	34	.0	-	10
465821067500401	09-05-73*	6.4	4.5	.4	123	0	64	21	.2	-	20
434532070125501	06-06-74	5.6	10	4.1	50	0	12	28	.2	.00	60
434958070175501	06-06-74	3.0	9.5	1.5	62	0	5.5	3.0	.3	.02	160
434957070175801	06-06-74	1.5	4.1	.8	25	0	4.5	6.8	.2	.01	20
434644070230501	06-06-74	5.7	22	7.7	67	0	14	45	.1	.02	50
435203070055701	06-05-74	4.5	15	3.2	83	0	10	34	.0	.00	20
434922070050501	06-05-74	6.2	13	4.7	109	0	7.6	6.5	.0	.00	290
435008070242501	06-05-74	1.2	4.8	1.6	31	0	7.5	2.8	.0	.01	920
434943070283401	06-06-74	1.8	10	1.9	22	0	5.7	18	.1	.00	60
434758070272401	07-22-74	1.6	6.2	1.0	24	0	4.4	8.7	.1	.01	210
434906070175501	06-06-74	.6	3.5	1.0	26	0	1.0	4.4	.0	.01	20
450530069054001	01-11-74	7.5	3.9	.2	98	0	7.1	3.7	.1	-	0
450530069054001	02-13-74	7.8	4.1	.2	102	0	7.1	3.8	.1	-	10
450530069054002	01-11-74	8.6	3.7	.2	98	0	10	10	.0	-	0
450530069054002	02-13-74	8.8	2.2	.3	103	0	9.1	10	.1	-	10
444219069545801	06-04-74	3.0	2.3	2.6	76	0	5.5	1.7	.1	.14	3500
443740067234801	09-17-73*	5.1	38	2.8	89	0	16	52	.4	-	80
443740067234801	01-23-74	3.7	19	1.2	133	0	12	28	.1	-	3100
443751067234001	09-17-73*	5.0	11	.6	151	0	3.8	13	.1	-	140
443751067234001	01-23-74	6.6	58	3.1	99	0	18	88	.8	-	80
443744067233504	09-17-73*	4.0	20	1.1	133	0	12	30	.0	-	2000
443905067233001	01-23-74	5.4	11	.5	153	0	3.2	14	.1	-	100
434822070482501	06-05-74	1.8	8.4	4.1	44	0	6.6	12	.0	.02	0

*Data collected during 1973 water year.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITRE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--continued

WELL NUMBER	DATE	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED SOLIDS (SUM)	HARDNESS (CA,MG)	NON CARBONATE HARDNESS	DISSOLVED NITRATE (NO3)	DISSOLVED NITRATE (N)	DISSOLVED NITRITE (N)	CARBON DIOXIDE (CO2)	TOTAL ORGANIC CARBON (C)
464619068280401	06-04-74	10	57	48	11	0.35	0.08	0.01	14	2.4
465826067501301	09-05-73*	0	305	233	124	39	8 8	.00	3.0	-
465826067501301	03-11-74	0	288	230	120	-	-	-	3.3	-
465821067500401	09-05-73*	0	280	224	123	37	8.4	.01	3.0	-
434532070125501	06-06-74	0	121	71	30	4.3	.96	.00	16	.5
434958070175501	06-06-74	0	80	42	0	1.2	.27	.00	2.0	.3
434957070175801	06-06-74	10	54	26	6	4.1	.93	.00	3.2	.5
434644070230501	06-06-74	50	182	88	33	11	2.6	.01	21	-
435203070055701	06-05-74	10	144	63	0	4.3	.98	.01	33	1.2
434922070050501	06-05-74	270	130	75	0	.22	.05	.01	2.8	.9
435008070242501	06-05-74	140	61	32	7	4.4	1.0	.00	16	.8
434943070283401	06-06-74	10	66	30	12	1.2	.27	.00	18	9.4
434758070272401	07-22-74	0	56	25	6	2.0	.45	.01	48	-
434906070175501	06-06-74	40	42	21	0	3.4	.76	.01	5.2	-
450530069054001	01-11-74	-	B/ 98	86	5	-	-	-	2.0	-
450530069054001	02-13-74	10	106	92	8	-	-	-	6.5	-
450530069054002	01-11-74	-	B/143	100	20	-	-	-	2.5	-
450530069054002	02-13-74	20	118	100	19	-	-	-	6.6	-
444219069545801	06-04-74	820	76	55	0	.40	.09	.01	15	5.8
443740067234801	09-17-73*	10	194	76	3	-	-	-	1.8	-
443740067234801	01-23-74	40	187	120	14	-	-	-	17	-
443751067234001	09-17-73*	480	166	120	0	-	-	-	4.8	-
443751067234001	01-23-74	30	266	97	16	-	-	-	1.3	-
443744067233504	09-17-73*	30	180	120	10	-	-	-	2.1	-
443905067233001	01-23-74	350	169	120	0	-	-	-	9.7	-
434822070482501	06-05-74	0	96	55	19	18	4.0	.01	7.0	-

A/ WATER-BEARING UNIT: B, BEDROCK UNDIFFERENTIATED; E, EOLIAN DEPOSITS; I, ICE-CONTACT DEPOSITS; L, LIMESTONE; O, OUTWASH; T, TILL

B/ RESIDUE AT 180° C

*Data collected during 1973 water year.

PART 3. GROUND WATER RECORDS

ANDROSCOGGIN COUNTY

440227070124101 (An 1) Ernest L. Libby. Auburn. Dug unused water-table well in marine deposits, diam 48 in.(122 cm), depth 15 ft (5 m), cased with rock to 15 ft (5 m). Lsd about 220 ft (67 m) above msl. MP top of granite curb at lsd. Highest water level, 3.30 ft (1.01 m) June 16, 1960; lowest, 10.23 ft (3.12 m) Nov. 16, 1965. Records available: 1959-74.

	1973		Feb.	15	4.30	June	15	3.78
Oct.	15	4.93		26	4.28		28	3.96
Nov.	27	4.28	Mar.	16	4.31	July	15	3.88
Dec.	15	4.21		29	4.31		29	3.92
	28	4.20	Apr.	16	4.31	Aug.	16	4.57
	1974			28	4.30		28	4.82
Jan.	15	4.15	May	15	4.25	Sept.	15	4.76
	28	4.31		28	3.94		28	4.63

AROOSTOOK COUNTY

464619068280401 (Ar 1) H. L. Stevens. Portage Lake. Driven unused water-table well in till, diam 1.5 in. (3.8 cm), depth 8 ft (2 m), formerly 11 ft (3 m), cased with iron pipe 0-8 ft (0-2m), screened 8-11 ft (2-3 m). Lsd about 930 ft (283 m) above msl. MP top of pipe, 2.0 ft (0.6 m) above lsd. Highest water level, overflowed Dec. 21, 1957; lowest, estimated 14.0 ft (4.3 m) Nov. 30, 1955. Has been dry frequently. Records available: 1942-74.

	1973		Jan.	25	5.15	June	4	4.24
Oct.	12	e10.95	Feb.	13	5.50		14	4.84
	30	e11.20		26	6.20		29	3.90
Nov.	13	e11.00	Mar.	14	3.80	July	13	4.77
	27	e11.00		26	3.00		30	6.27
Dec.	14	2.50	Apr.	12	2.80	Aug.	16	5.80
	1974			26	1.20		28	7.24
Jan.	2	2.42	May	15	1.60	Sept.	14	e8.40
	11	2.50		29	2.37		29	7.20

e Water level estimated, well dry.

460657067512201 (Ar 3) J. Edward Goodin. Houlton. Drilled unused artesian well in bedrock, diam 6 in. (15 cm), depth 90 ft (27 m), cased with steel. Lsd about 370 ft (113 m) above msl. MP hole in top of pump base at lsd. Highest water level 10.72 ft (3.27 m) Mar. 31, 1973; lowest, 25.91 ft (7.90 m) Oct. 15, 1960. Records available: 1958-74.

	1973			1974	
Oct.	12	16.17	Mar.	24	14.96
	27	16.82	May	23	13.29

CUMBERLAND COUNTY

435453070013601 (C 26) Brunswick and Topsham Water District. Brunswick. Drilled unused artesian well in stratified glacial drift, diam 12 in. (30 cm), depth 101 ft (31 m), cased with steel 0-81 ft (0-25m), screened 81-101 ft (25-31 m). Lsd 139 ft (42 m) above msl. MP base of water-level recorder at lsd. Highest water level, 27.79 ft (8.47 m) July 5, 1974; lowest, 36.41 ft (11.10 m) Feb. 10, 1966. Records available: 1958-74.

Mean water level for the day, from recorder graph.

	1973		Nov.	25	29.64	Jan.	15	28.30
Oct.	5	29.13		30	29.69		27	h28.34
	10	29.36	Dec.	5	29.68	Feb.	5	28.39
	15	29.31		10	29.65		10	28.43
	20	29.43		15	29.44	Mar.	2	h28.69
	25	29.52		20	29.12		5	28.76
	31	29.42		25	28.72		10	28.77
Nov.	5	29.51		31	28.38		25	28.77
	10	29.60		1974			31	28.65
	15	29.54	Jan.	5	28.24	Apr.	5	28.55
	20	29.71		10	28.29		10	28.34

CUMBERLAND COUNTY--Continued

435453070013601--Continued

	1974		June	5	h27.92	July	31	28.04
Apr.	15	28.21		28	27.90	Aug.	5	28.09
	30	e28.15	July	10	27.79		26	28.46
May	5	28.13		20	27.92		31	h28.49
	31	e28.02		25	h28.01	Sept.	25	28.52
							30	28.78

e Water level estimated.
h Instantaneous measurement, made manually.

HANCOCK COUNTY

444950068220601 (H 1) Norman Salisbury. Amherst. Dug unused water-table well in glacial drift, diam 18 in. (46 cm), depth 14 ft (4 m), cased with rock to 14 ft (4 m). Lsd about 330 ft (101 m) above msl. MP nail in top of vertical timber at lsd. Highest water level, 2.10 ft (0.64 m) May 29, 1961; lowest, estimated 17.8 ft (5.4 m) Sept. 30, 1965. Has been dry frequently. Records available: 1943-74.

	1973		Jan.	31	e7.20	June	14	7.00
Oct.	12	9.40	Feb.	21	7.30		28	6.90
	24	9.84		27	6.60	July	11	7.90
Nov.	14	6.40	Mar.	12	6.80		28	7.40
	30	6.20		27	6.00	Aug.	11	9.00
Dec.	13	4.60	Apr.	11	e6.60		28	10.70
	27	4.30		30	4.90	Sept.	12	11.30
	1974		May	12	5.00		27	12.00
Jan.	12	e6.80		28	6.40			

e Well frozen, water level estimated.

KENNEBEC COUNTY

441849069442001 (K 52) Walter Panek. Augusta. Dug unused water-table well in glacial till, diam 36 in.(91 cm), depth 22 ft (7 m). Lsd about 220 ft (67 m) above msl. MP top of floor of shelter house at lsd. Highest water level, 3.46 ft (1.05 m) Nov. 30, 1963; lowest, 14.29 ft (4.36 m) Oct. 31, 1963. Records available: 1960-74.

Mean water level for the day, from recorder graph.

	1973		Dec.	25	4.58	Apr.	5	4.77
Oct.	5	8.94		31	4.41		10	4.57
	10	8.95		1974			15	4.09
	15	9.05	Jan.	5	5.02		20	4.54
	20	9.20		10	5.50		25	3.87
	25	9.32		15	5.92		30	4.57
	31	8.35		20	6.31	May	5	4.63
Nov.	5	5.25		25	5.41		10	4.99
	10	4.69		31	4.37		15	4.35
	15	4.85	Feb.	25	h5.34		31	5.01
	20	4.85		28	5.82	June	27	h5.75
	25	4.97	Mar.	5	5.63	July	20	6.20
	30	4.34		10	5.71		25	6.66
Dec.	5	4.72		15	6.15		26	6.95
	10	3.89		20	4.75	Aug.	27	8.52
	15	3.75		25	4.33	Sept.	30	5.84
	20	4.38		31	5.14			

h Instantaneous measurement, made manually.

442023069553801 (K 88) A. Allen Stackpole. Winthrop. Drilled unused artesian well in bedrock, diam 6 in. (15 cm), depth 298 ft (91 m), cased with steel. Lsd about 350 ft (107 m) above msl. MP top of pipe at lsd. Highest water level, 35.26 ft (10.75 m) Apr. 17, 1972; lowest, 59.86 ft (18.25 m) Oct. 31, 1962. Records available: 1962-74.

	1973			1974		June	27	50.24
Oct.	29	49.88	Mar.	28	45.95	July	26	49.86
Nov.	23	45.18	Apr.	29	43.10	Aug.	27	52.58
			May	30	43.80	Sept.	30	53.62

OXFORD COUNTY

444637070552301 (O 490) Union Water Power Co. Middle Dam, Lower Richardson Lake. Dug domestic water-table well in glacial till, diam 24 in. (61 cm), depth 15 ft (5 m), cased with concrete pipe to 15 ft (5 m). Lsd about 1,450 ft (442 m) above msl. MP top of casing 2.0 ft (0.6 m) above lsd. Highest water level, 0.2 ft (0.1 m) May 20, 1945, Apr. 30, 1961, Apr. 16, 1967; lowest, 12.2 ft (3.7 m) Oct. 9, 16, 23, 1966. Records available: 1944-74.

	1973		Jan.	27	3.8	June	2	2.5
Oct.	6	7.1	Feb.	3	4.2		16	4.9
	14	5.6		11	4.2		23	5.4
	21	6.2		17	4.8		30	5.9
	28	6.4		24	5.2	July	7	3.8
Nov.	4	5.2	Mar.	3	5.7		14	4.2
	11	5.0		10	3.2		21	5.3
	18	3.9		17	1.2		28	6.1
	25	3.8		24	2.7	Aug.	4	6.8
Dec.	2	3.8		31	3.0		11	7.7
	9	3.2	Apr.	7	.9		18	8.2
	16	1.4		14	.7		25	8.8
	23	1.2		21	.7	Sept.	1	9.2
	30	1.4		28	.8		8	9.1
	1974		May	5	.8		15	9.0
Jan.	6	2.8		12	1.1		22	9.0
	13	3.6		19	2.2		29	8.8
	20	4.1		26	1.2			

SOMERSET COUNTY

444219069545801 (Sm 1) J. Harrison Farrand. Mercer. Dug unused water-table well in sand, diam 60 in. (152 cm), depth 14 ft (4 m), cased with rock to 14 ft (4 m). Lsd about 270 ft (82 m) above msl. MP nail in top of horizontal timber at NE corner of well cover, 0.4 ft (0.1 m) above lsd. Highest water level, 3.75 ft (1.14 m) Apr. 13, 1960; lowest, estimated 14.1 ft (4.3 m) Nov. 30, 1952. Records available: 1942-74. Recording gage removed Oct. 24, 1973 and reinstalled June 4, 1974.

	1973		Apr.	9	4.82	July	10	5.34
Oct.	5	6.35		26	4.37		15	5.96
	10	6.15	May	12	4.12		20	6.07
	24	h6.06		26	4.36		25	h6.38
Nov.	23	5.98	June	4	5.03		31	6.72
Dec.	24	4.45		5	5.12	Aug.	5	6.91
	1974			10	5.42		10	7.15
Jan.	11	5.70		15	5.53		15	7.44
	25	5.21		20	4.82		20	7.65
Feb.	10	5.58		25	5.20		25	7.80
	27	5.68		27	4.92		31	7.74
Mar.	12	6.30		30	5.08	Sept.	25	h6.34
	27	4.84	July	5	5.44		30	6.34

Note.--Water levels when recorder was in operation are from recorder graph and are mean for the day except those with the symbol h, which are instantaneous measurements made manually.

WASHINGTON COUNTY

444955067000501 (W 2) Lubec Water District. Lubec. Driven unused artesian well in glacial sand and gravel, diam 2.5 in. (6.4 cm), depth 52 ft (16 m), cased with iron pipe 0-42 ft (0-13 m), screened 42-52 ft (13-16 m). Lsd about 50 ft (15 m) above msl. MP top of casing at lsd. Highest water level, 9.31 ft (2.84 m) June 14, 1960; lowest, 19.89 ft (6.06 m) Nov. 12, 1965. Records available: 1958-74.

	1973			1974		Apr.	25	15.30
Oct.	24	14.90	Jan.	28	16.10	May	26	15.20
Nov.	25	15.90	Feb.	27	15.70	June	29	15.30
Dec.	23	16.20	Mar.	25	15.80	July	30	15.10
						Aug.	26	15.60

YORK COUNTY

434822070482501 (Y 1) James P. Small. Cornish. Dug unused water-table well in glacial outwash, diam 36 in. (91 cm), depth 24 ft (7 m), cased with brick to 24 ft (7 m). Lsd about 370 ft (113 m) above msl. MP mark chiseled on top of concrete well curb at lsd. Highest water level, 7.90 ft (2.41 m) Apr. 16, 1952; lowest, 18.40 ft (5.61 m) Nov. 14, 1948. Records available: 1943-74.

Mean water level for the day, from recorder graph.

	1973		Jan.	25	11.04	June	10	10.96
Oct.	5	15.48		31	8.76		15	11.58
	10	15.61	Feb.	5	9.19		20	11.16
	15	15.67		10	10.20		25	h11.04
	20	15.94		15	11.25		30	11.00
	25	h16.25		20	11.83	July	5	11.45
	31	16.32		25	h11.99		10	11.46
Nov.	5	13.35		28	e11.80		15	11.99
	10	11.75	Mar.	25	h 9.60		20	12.35
	15	12.05		31	9.97		25	h12.76
	20	12.67	Apr.	5	9.05		31	13.31
	25	h13.02		10	9.12	Aug.	5	13.81
	30	13.41		15	9.62		10	14.35
Dec.	5	13.12		20	9.12		15	14.77
	10	11.75		25	h 9.18		20	15.20
	15	8.85		30	9.24		25	h15.50
	20	8.61	May	5	9.65		31	15.86
	25	h 8.89		10	9.96	Sept.	5	15.54
	31	8.85		15	8.95		10	13.71
	1974			20	9.50		15	13.33
Jan.	5	9.40		25	9.85		20	13.76
	10	10.21		31	9.92		25	h14.02
	15	10.81	June	5	10.45		30	14.13
	20	11.12						

e Water level estimated.
h Instantaneous measurement, made manually.

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